



Structural Engineers – Since 1957

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Kansas City, MO 64111
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BOB D. CAMPBELL & CO., INC.

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Paul M. Spena

TRANSMITTAL LETTER

DATE: February 19, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 1 Truss Shop Drawings	APPROVED
SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102



Employee-Owned

TRANSMITTAL

Kolten Ragan, Project Engineer
Brinkmann Constructors
 11101 Switzer Road, Suite 310
 Overland Park, KS 66210

Date: 2/16/2022

To:
TR,i Architects
 Attn: Michaela Silva
 1790 S Brentwood Blvd
 St. Louis, MO 63144

Re: **Vanguard Villas**
 2100 NW Lowenstein Dr.
 Lee's Summit, MO 64081
 Job #: 1399

We are sending:

- ☒ Product Data
☐ Reports
☐ Shop Drawings
☒ Samples
☐ Other

Transmitted as checked:

- ☒ For Approval
☐ For Your Use
☐ As Requested
☐ Approved as Submitted
☐ Other

Transmitted via:

- ☒ Via email (PDF)
☒ Copies to follow
 (USPS/Ground)

Submittal Number	Description	Date Submitted	Due Date
061753-2	Group 1 Floor & Roof Truss - SD	2/16/2022	3/8/2022

Brinkmann Approval

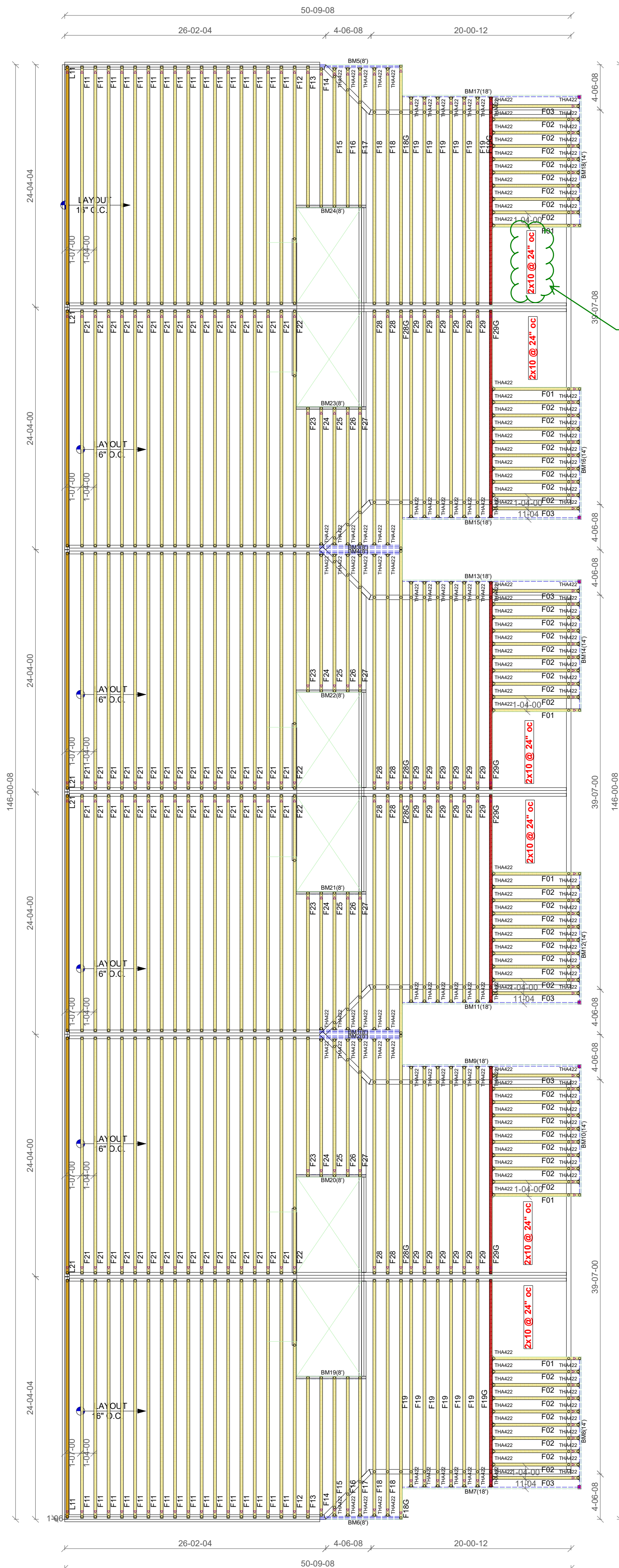
Submittals bearing this stamp have been verified or will be verified as to materials, field measurements and construction criteria related thereto and have been coordinated with the Contract Documents. The Sub-contractor is responsible to the General Contractor for dimensions to be confirmed and correlated at the job site, and for information that pertains to the fabrication process or to the technique of construction and for coordination of the work with all trades.

By: Kolten Ragan

Date: 2/16/2022

Brinkmann Comments in Green

6- Plex Building



Floor Information
First Floor Area: 0 ft²
Second Floor Area: 6805.41

Truss Connector Total List		
Manuf	Product	Qty
	THA422	190

Verify Correct callout, structural calls 16" O.C. for this unit and 24" O.C. for the others

24"oc ok
-bdc

SHOP DRAWING REVIEW REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS	
☐	APPROVED
☐	FURNISH AS CORRECTED
☐	REJECTED. REVISE & RESUBMIT
☐	RETURNED NOT REVIEWED
☐	REVIEWED
PREFER TO DEFINITIONS IN ATTACHED COMMENTARY Bob D. Campbell & Co., Inc. STRUCTURAL ENGINEERS DATE: <u>02/19/2022</u> BY: <u>cb</u>	

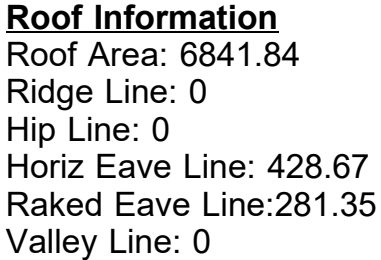
NOTE:
Yellow ID Tag
Location Indicates
Left/Front/Bottom
of Truss

Thank you for giving us the opportunity to serve you.
We appreciate your business and the
confidence you have placed in us.

Please call us if we can be of further assistance.

</

DO NOT Erect BWRDS/Upside Down, Cut, Alter, Installed Trusses!



3363 S Halstead Rd
Halstead, KS 67056
Office: 316-830-6108



RE: B212230-G01F - Brinkmann Constructors

MiTek USA, Inc.

Site Information:16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Project Customer: Valued customer Project Name: BRINKMANN CONSTRUCTORS

Lot/Block: Subdivision:

Model:

Address: TBD

City: Lee Summit

State: Mo

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IBC2018/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: N/A Wind Speed: N/A mph

Design Method: N/A

Roof Load: N/A psf

Floor Load: 75.0 psf

Mean Roof Height (feet): N/A

Exposure Category: N/A

No.	Seal#	Truss Name	Date
1	I50150111	F01	2/10/22
2	I50150112	F02	2/10/22
3	I50150113	F03	2/10/22
4	I50150114	F11	2/10/22
5	I50150115	F12	2/10/22
6	I50150116	F13	2/10/22
7	I50150117	F14	2/10/22
8	I50150118	F15	2/10/22
9	I50150119	F16	2/10/22
10	I50150120	F17	2/10/22
11	I50150121	F18	2/10/22
12	I50150122	F18G	2/10/22
13	I50150123	F19	2/10/22
14	I50150124	F19G	2/10/22
15	I50150125	F21	2/10/22
16	I50150126	F22	2/10/22
17	I50150127	F23	2/10/22
18	I50150128	F24	2/10/22
19	I50150129	F25	2/10/22
20	I50150130	F26	2/10/22
21	I50150131	F27	2/10/22
22	I50150132	F28	2/10/22
23	I50150133	F28G	2/10/22
24	I50150134	F29	2/10/22
25	I50150135	F29G	2/10/22
26	I50150136	L11	2/10/22
27	I50150137	L21	2/10/22

SHOP DRAWING REVIEW	
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS	
☒	APPROVED
☐	FURNISH AS CORRECTED
☐	REJECTED: REVISE & RESUBMIT
☐	RETURNED NOT REVIEWED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY	
Bob D. Campbell & Co., Inc.	
STRUCTURAL ENGINEERS	
DATE: 06/08/2020	BY: MJF

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Mill Creek Truss, LLC.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2023.

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



February 10, 2022

Building 1

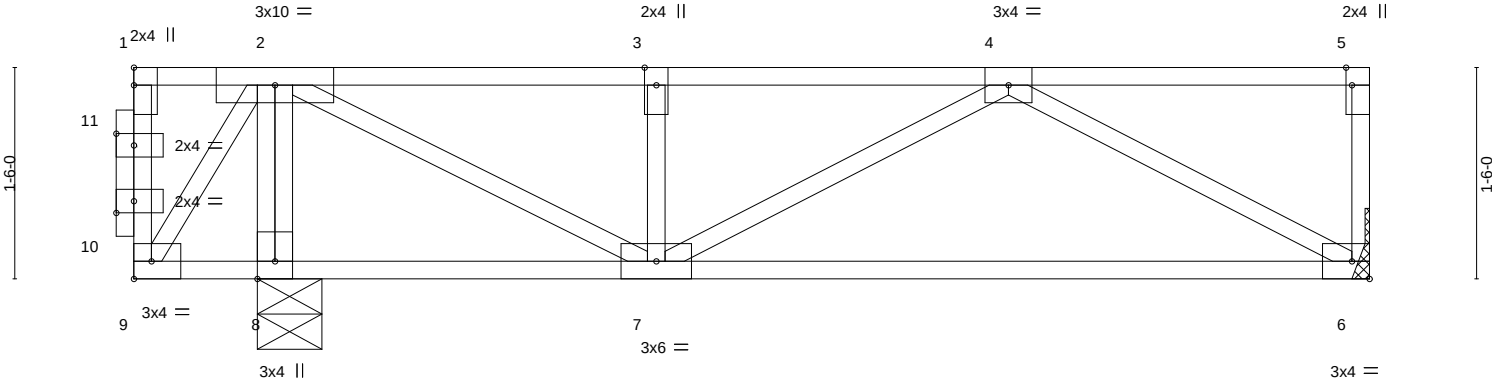
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F01	Floor	6	1	I50150111
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:41 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-DC3Au?jopkjrYw9ALvhFoxFJZs88bxeCy7zOQrZmuGW



Scale = 1:16.4



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

	1-0-0	1-1-8	8-10-12
	1-0-0	0-1-8	7-9-4
Plate Offsets (X,Y)--	[5:0-1-8,Edge], [10:0-1-8,0-1-0], [11:0-1-8,0-1-0]		

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.25	Vert(LL)	-0.01	7	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.31	Vert(CT)	-0.09	6-7	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-P						Weight: 39 lb	FT = 20%F, 11%E

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

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

REACTIONS. (size) 8=0-5-8, 6=Mechanical
Max Grav 8=485(LC 1), 6=383(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-536/0, 3-4=-536/0
BOT CHORD 6-7=0/488
WEBS 2-8=-470/0, 4-6=-557/0, 2-7=0/579

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.



February 10,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

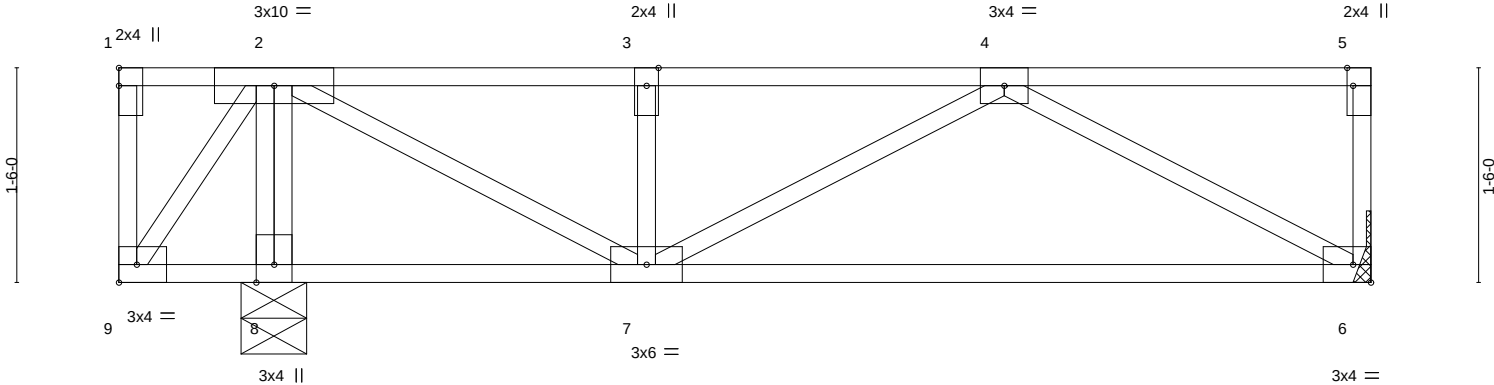
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F02	Floor	48	1	I50150112
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:42 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-iOdZ5LkQa2riA4kMvcCUL8oUJFUPKOxMBnxyzmuGV



Scale: 3/4"=1'



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

Plate Offsets (X,Y)--		[5:0-1-8,Edge]		[5:0-1-8,Edge]	
LOADING (psf)		SPACING-		CSI.	
TCLL 40.0		Plate Grip DOL 1.00		TC 0.25	
TCDL 25.0		Lumber DOL 1.00		BC 0.30	
BCLL 0.0		Rep Stress Incr YES		WB 0.16	
BCDL 10.0		Code IBC2018/TPI2014		Matrix-P	
				DEFL.	
				in (loc) l/defl L/d	
				Vert(LL) -0.01 7 >999 480	
				Vert(CT) -0.09 6-7 >999 360	
				Horz(CT) 0.00 6 n/a n/a	
				PLATES GRIP	
				MT20 197/144	
				Weight: 38 lb FT = 20%F, 11%E	

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

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

REACTIONS. (size) 8=0-5-8, 6=Mechanical
Max Grav 8=489(LC 1), 6=377(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-514/0, 3-4=-514/0
BOT CHORD 6-7=0/478
WEBS 2-8=-476/0, 4-6=-545/0, 2-7=0/567

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.



February 10,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

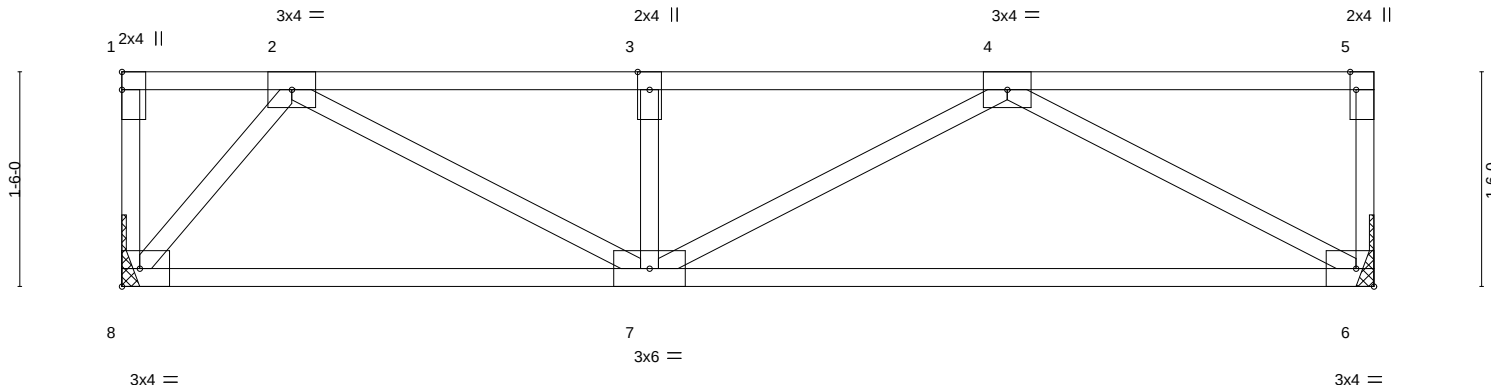
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F03	Floor	6	1	I50150113
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:43 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-AaBxJhl2LMZz0EJYSJjuMLf2fpJ3raVQRSUVkzmuGU

1-0-12 2-5-4

Scale: 3/4"=1'



0-1-8 0-1-8		8-9-0 8-7-8	
Plate Offsets (X,Y)--		[5:0-1-8,Edge]	
LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL 1.00	TC 0.25	Vert(LL) -0.01 7 >999 480
TCDL 25.0	Lumber DOL 1.00	BC 0.32	Vert(CT) -0.09 6-7 >999 360
BCLL 0.0	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.01 6 n/a n/a
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	
		PLATES MT20	GRIP 197/144
		Weight: 35 lb FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 6=Mechanical, 8=Mechanical
Max Grav 6=431(LC 1), 8=431(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-712/0, 3-4=-712/0
BOT CHORD 7-8=0/326, 6-7=0/578
WEBS 4-6=-659/0, 2-7=0/440, 2-8=-515/0

NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



February 10, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



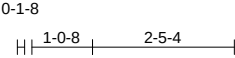
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

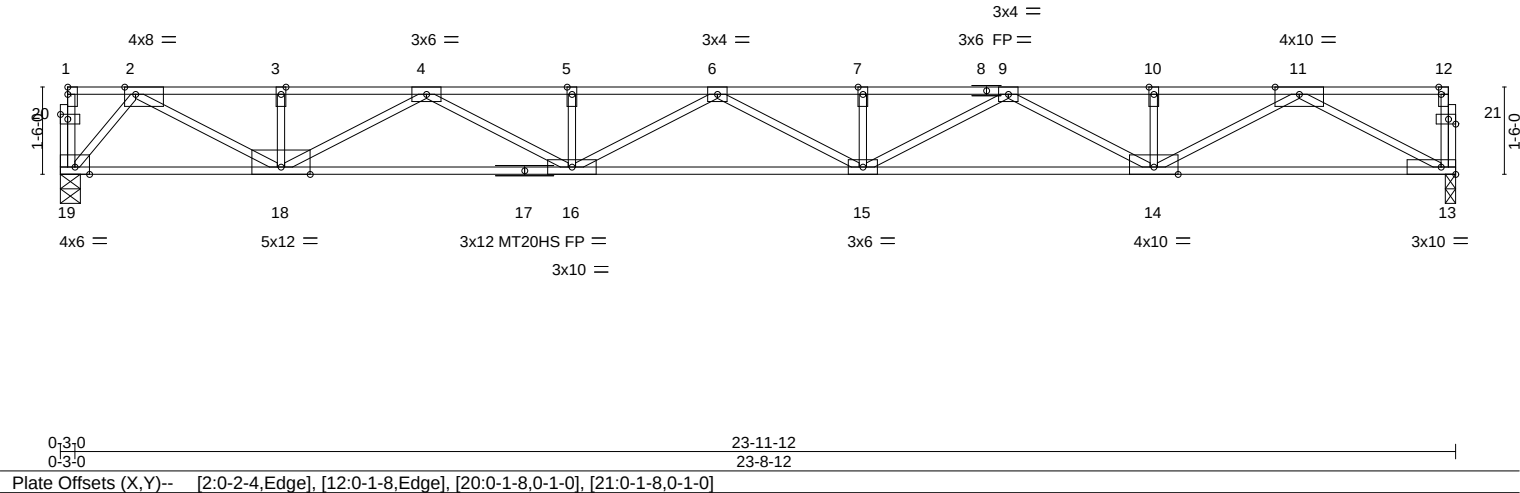
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F11	Floor	32	1	I50150114
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:45 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-6zJhkNmJtzDH1YTakIBznQrETPRxfQotIxbZdzmuGS



0-1-8
Scale = 1:39.6



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.84	Vert(LL)	-0.37 15-16	>764	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.67	Vert(CT)	-0.72 15-16	>395	360	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.10 13	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S					Weight: 95 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS. (size) 19=0-4-2, 13=0-2-2
Max Grav 19=1181(LC 1), 13=1181(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2717/0, 3-4=-2717/0, 4-5=-4783/0, 5-6=-4783/0, 6-7=-5034/0, 7-9=-5034/0, 9-10=-3479/0, 10-11=-3479/0
BOT CHORD 18-19=0/974, 16-18=0/3950, 15-16=0/5111, 14-15=0/4460, 13-14=0/1990
WEBS 11-13=-2254/0, 11-14=0/1700, 9-14=-1119/0, 9-15=0/655, 6-16=-373/0, 4-16=0/951, 4-18=-1407/0, 2-18=0/1989, 2-19=-1504/0

NOTES-
1) All plates are MT20 plates unless otherwise indicated.
2) All plates are 2x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.



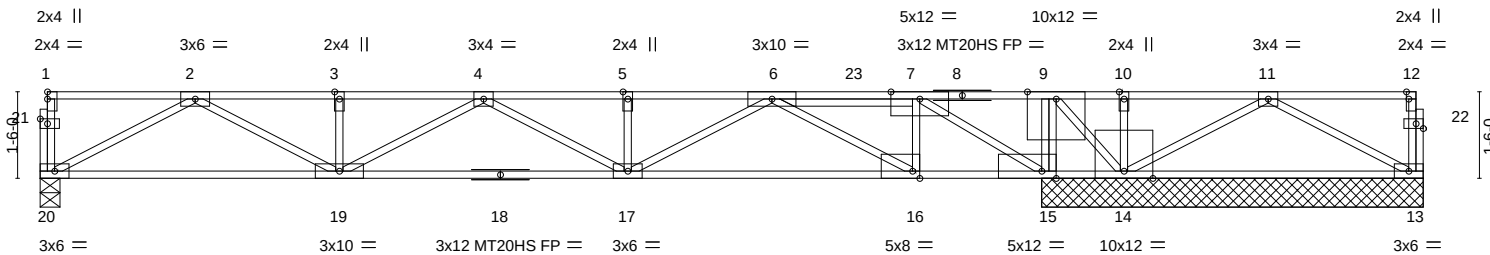
February 10,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50150115
B212230-G01F	F12	Floor	2	1	Job Reference (optional)	

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:46 2022 Page 1
ID:NV6bSMes78VGO cjNstCYwy9Jso-a9t3xjnxHL8fi178SHOV y1UtiXG2Cx6Pg953zmuGR



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

										17-5-14		23-11-12	
										17-5-14		6-5-14	
Plate Offsets (X,Y)-- [12:0-1-8,Edge], [15:0-3-0,Edge], [16:0-1-8,Edge], [21:0-1-8,0-1-0], [22:0-1-8,0-1-0]													
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.12	17	>999	480	MT20	197/144	
TCDL	25.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.22	16-17	>964	360	MT20HS	148/108	
BCLL	0.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.05	15	n/a	n/a			
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S							Weight: 104 lb FT = 20%F, 11%E		

LUMBER-
TOP CHORD 2x4 DF 2400F 2.0E(flat) *Except*
8-12: 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat) *Except*
6-7: 2x4 SPF 2100F 1.8E(flat)

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

REACTIONS. (size) 20=0-4-2, 15=6-7-6, 13=6-7-6, 14=6-7-6
 Max Uplift 13=-199(LC 1), 14=-1245(LC 1)
 Max Grav 20=826(LC 1), 15=4240(LC 1)

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

TOP CHORD 2-3=-2178/0, 3-4=-2178/0, 4-5=-2437/0, 5-6=-2442/0, 7-9=0/3511, 9-10=0/1603, 10-11=0/1603

BOT CHORD 19-20=0/1329, 17-19=0/2514, 16-17=0/1981, 14-15=-3511/0, 13-14=-574/0

WEBS 9-15=-2126/0, 2-20=-1503/0, 2-19=0/970, 4-19=-383/0, 6-17=0/511, 6-16=-2268/0, 7-16=0/1139, 7-15=-4083/0, 11-13=0/656, 11-14=-1174/0, 9-14=0/2777

NOTES-

- 1) All plates are MT20 plates unless otherwise indicated.
- 2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 13 and 1245 lb uplift at joint 14.
- 3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 4) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" o.c. and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1260 lb down at 14'-1-8" on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-13, 1-12=-87
Concentrated Loads (lb)
Vert: 23=-1260(F)



February 10, 2022



WARNING – verify design parameters and NOTES ON THIS AND INCLUDED WITHIN REFERENCE TAE MIF-1413 (Rev. 3/25/2020) BEFORE USE.
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.



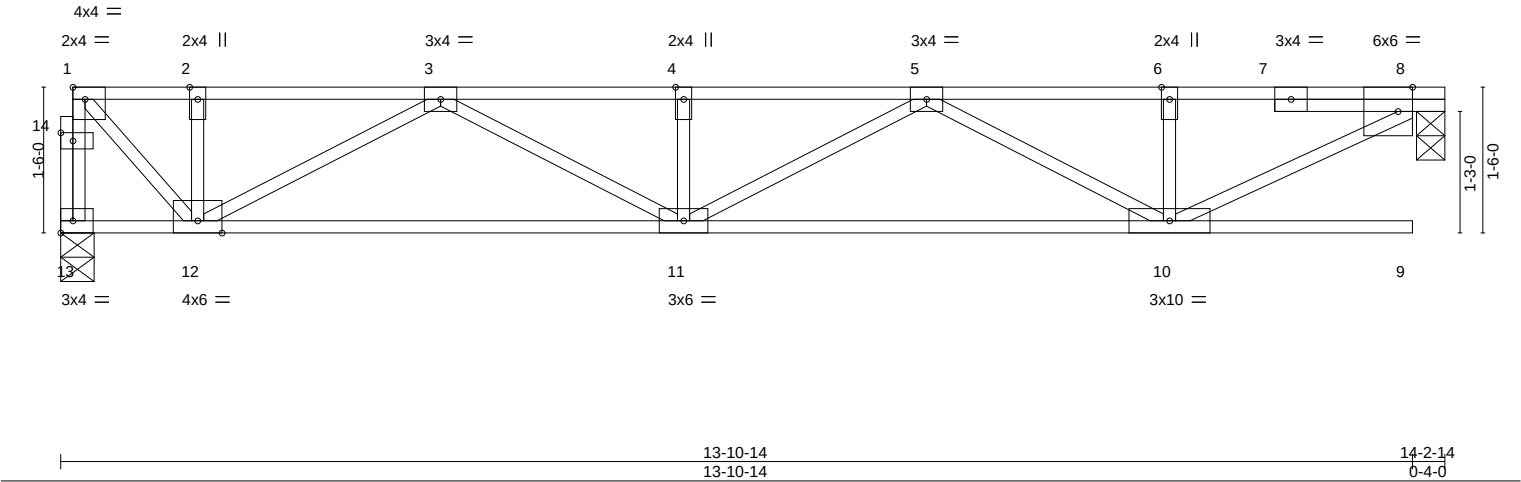
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F13	Floor	2	1	I50150116
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:47 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-2MQS93oZPaT?GrcJh9of2CVL5G6o?bH5K3QieVzmuGQ



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.24	Vert(LL)	-0.05	11	>999	480	MT20
TCDL 25.0	Lumber DOL	1.00	BC 0.61	Vert(CT)	-0.17	9	>990	360	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.00	8	n/a	n/a	
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						
				Weight: 58 lb	FT = 20%F, 11%E				

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 13=0-4-2, 8=0-3-8
Max Grav 13=684(LC 1), 8=689(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-694/0, 1-2=-625/0, 2-3=-625/0, 3-4=-1757/0, 4-5=-1757/0, 5-6=-1083/0, 6-8=-1086/0
BOT CHORD 11-12=0/1394, 10-11=0/1621
WEBS 8-10=0/1223, 5-10=-614/0, 3-11=0/415, 3-12=-878/0, 1-12=0/893

- NOTES-**
- 1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 4) CAUTION, Do not erect truss backwards.



February 10,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F14	Floor	2	1	I50150117
Job Reference (optional)					

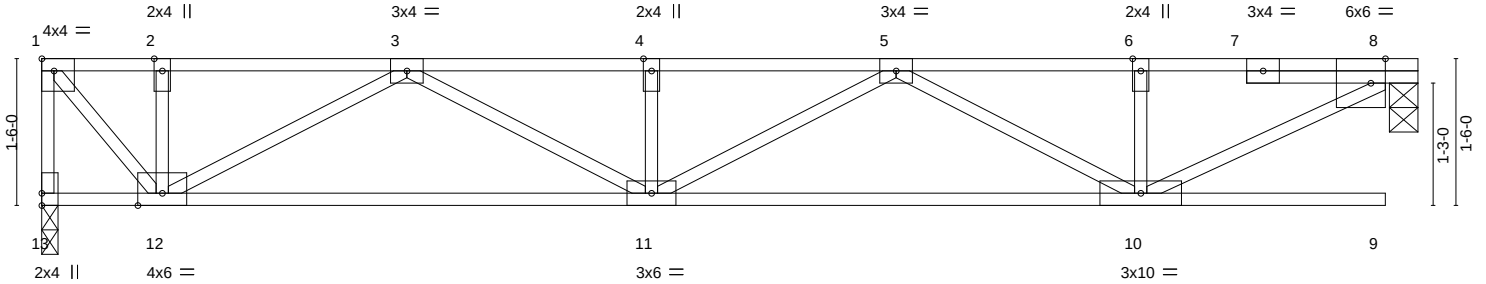
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:48 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-WY_qMPpBAucusu?BWftJubP2WtgS6k2bEZj9FAxzmugP

1-0-8 2-5-4

0-4-0

Scale = 1:23.5



13-8-12

14-0-12

13-8-12

0-4-0

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

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.24	Vert(LL)	-0.05	11	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.60	Vert(CT)	-0.17	9	>983	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						Weight: 57 lb	FT = 20%F, 11%E

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

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

REACTIONS. (size) 13=0-2-0, 8=0-3-8
Max Grav 13=683(LC 1), 8=683(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-695/0, 1-2=-573/0, 2-3=-573/0, 3-4=-1726/0, 4-5=-1726/0, 5-6=-1072/0, 6-8=-1076/0
BOT CHORD 11-12=0/1352, 10-11=0/1600
WEBS 8-10=0/1211, 5-10=-602/0, 3-11=0/426, 3-12=-889/0, 1-12=0/884

NOTES-
1) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
5) CAUTION, Do not erect truss backwards.



February 10,2022

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

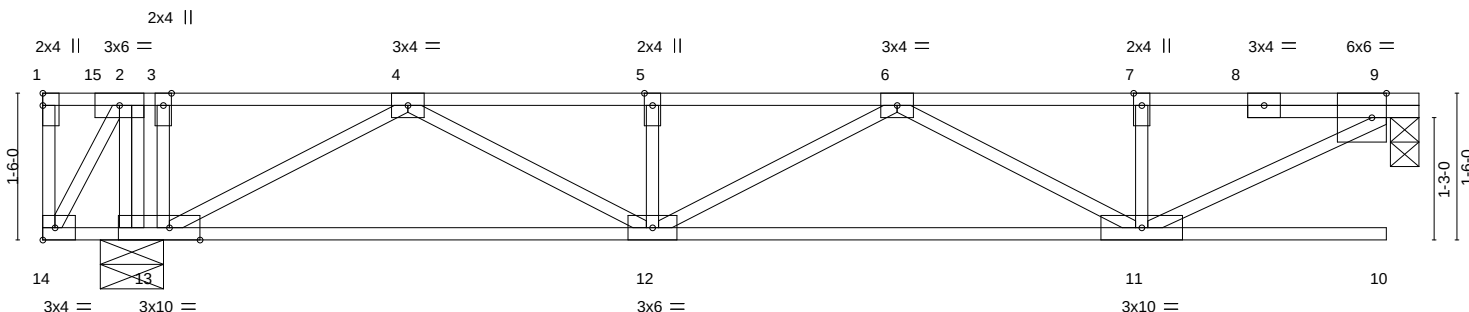
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F15	Floor	2	1	I50150118
Mill Creek Truss, LLC, Halstead, KS - 67056,					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:51 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-x7gy_Qr3Sp_RITw5w?sbC2g1TuUcxQqgFhOwnGzmuGM

0-7-15 0-1-10 2-5-4

0-4-0

Scale = 1:23.5



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

0-10-15	13-8-12	14-0-12
0-10-15	12-9-14	0-4-0

Plate Offsets (X, Y)--		[9:0-1-13,Edge], [13:0-3-12,Edge]							
LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.22	Vert(LL)	-0.04 11-12	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.55	Vert(CT)	-0.17 10	>914	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.00 9	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S					Weight: 59 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.

REACTIONS.

(size) 9=0-3-8, 13=0-7-12
Max Grav 9=629(LC 4), 13=740(LC 1)

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

TOP CHORD 4-5=-1428/0, 5-6=-1428/0, 6-7=-973/0, 7-9=-977/0
BOT CHORD 12-13=0/953, 11-12=0/1401
WEBS 9-11=0/1100, 6-11=-488/0, 4-12=0/546, 4-13=-1037/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 5) CAUTION, Do not erect truss backwards.



February 10, 2022

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



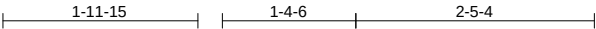
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

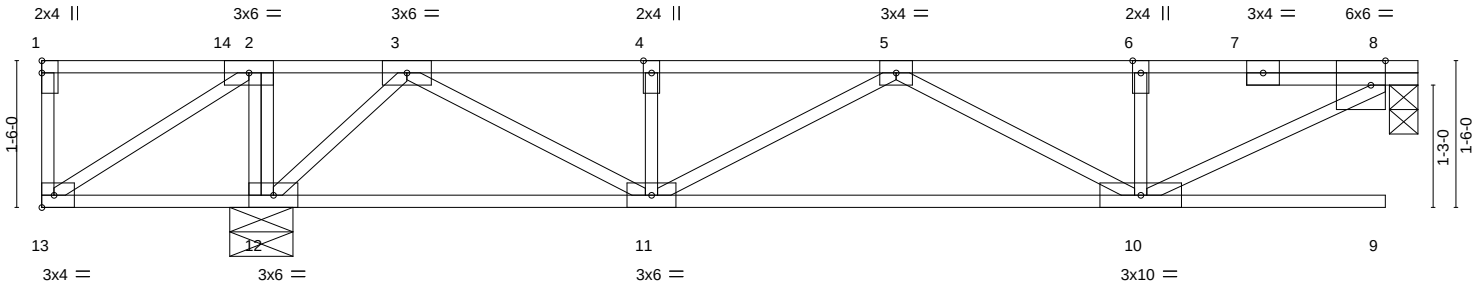
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F16	Floor	2	1	I50150119
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:52 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-PJELCmsiD76HNdVHUiNqIFCCLHrogftqUL7TJjzmuGL



Scale = 1:23.5



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

	2-2-15	2-4-7	13-8-12	14-0-12
	2-2-15	0-1-8	11-4-6	0-4-0
Plate Offsets (X,Y)--	[8:0-1-13,Edge]			

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.21	Vert(LL)	-0.03	10-11	>999	480	MT20
TCDL 25.0	Lumber DOL	1.00	BC 0.49	Vert(CT)	-0.15	9	>912	360	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.27	Horz(CT)	-0.00	8	n/a	n/a	
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						
								Weight: 58 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

REACTIONS.

(size) 8=0-3-8, 12=0-7-12
Max Grav 8=565(LC 4), 12=813(LC 1)

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

TOP CHORD 3-4=-1078/0, 4-5=-1078/0, 5-6=-858/0, 6-8=-861/0
BOT CHORD 11-12=0/487, 10-11=0/1166
WEBS 2-12=-266/0, 8-10=0/969, 5-10=-351/0, 3-11=0/701, 3-12=-742/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 5) CAUTION, Do not erect truss backwards.



February 10,2022

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

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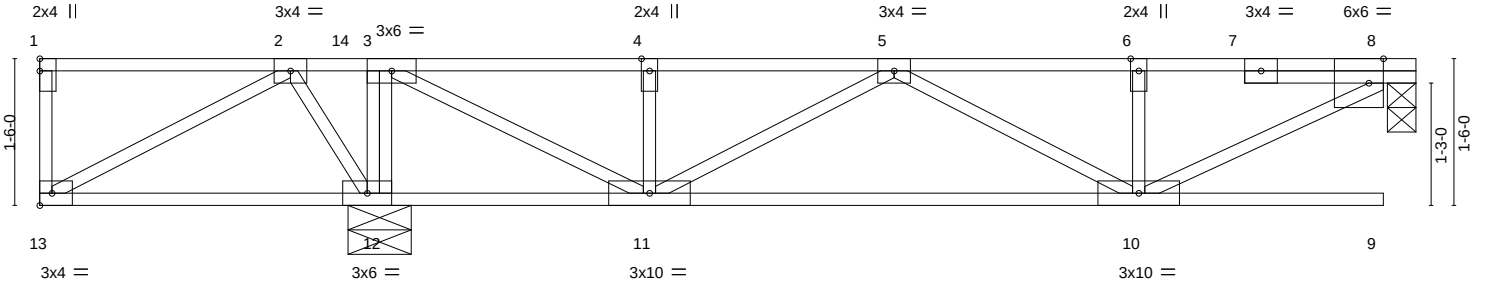
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F17	Floor	2	1	I50150120
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:53 2022 Page 1
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TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

Plate Offsets (X,Y)--		3-4-3	3-5-11	13-8-12	14-0-12
		3-4-3	0-1-8	10-3-2	0-4-0
[8:0-1-13,Edge]					
LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	PLATES GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.32	in (loc) l/defl L/d	MT20 197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.42	Vert(LL) -0.02 10-11 >999 480	
BCLL 0.0	Rep Stress Incr	YES	WB 0.27	Vert(CT) -0.14 9 >907 360	
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Horz(CT) -0.00 8 n/a n/a	
				Weight: 58 lb	FT = 20%F, 11%E

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

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

REACTIONS. (size) 8=0-3-8, 12=0-7-12
Max Grav 8=486(LC 4), 12=911(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/399, 3-4=-652/0, 4-5=-652/0, 5-6=-717/0, 6-8=-720/0
BOT CHORD 11-12=-399/0, 10-11=0/879
WEBS 3-12=-585/0, 2-12=-372/0, 8-10=0/810, 5-11=-319/0, 3-11=0/971

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
5) CAUTION, Do not erect truss backwards.



February 10,2022

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

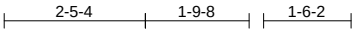
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F18	Floor	4	1	IS0150121
Job Reference (optional)					

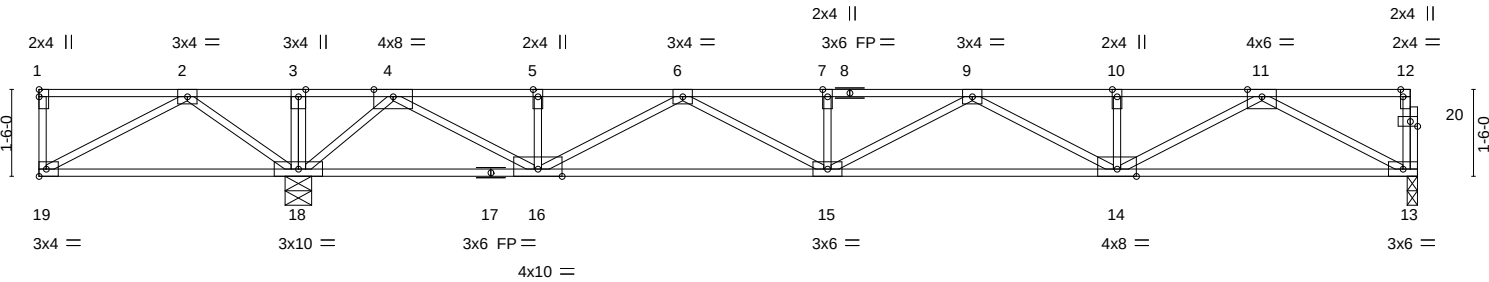
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:54 2022 Page 1
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0-1-8

Scale = 1:39.8



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).



Plate Offsets (X,Y)-- [12:0-1-8,Edge], [20:0-1-8,0-1-0]							
LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	L/defl	L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.42	Vert(LL)	-0.19 15	>999	480
TCDL 25.0	Lumber DOL	1.00	BC 0.93	Vert(CT)	-0.34 15-16	>679	360
BCLL 0.0	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.07 13	n/a	n/a
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S				
						Weight: 95 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 18=0-5-8, 13=0-2-2
Max Grav 18=1452(LC 1), 13=931(LC 4)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/677, 3-4=0/677, 4-5=-2052/0, 5-6=-2052/0, 6-7=-3214/0, 7-9=-3214/0, 9-10=-2563/0, 10-11=-2563/0
BOT CHORD 16-18=-150/769, 15-16=0/2830, 14-15=0/3088, 13-14=0/1525
WEBS 2-18=-587/0, 11-13=-1726/0, 11-14=0/1185, 9-14=-599/0, 6-15=0/494, 6-16=-943/0, 4-16=0/1521, 4-18=-1431/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
- 3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



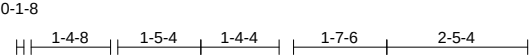
February 10,2022

Building 1

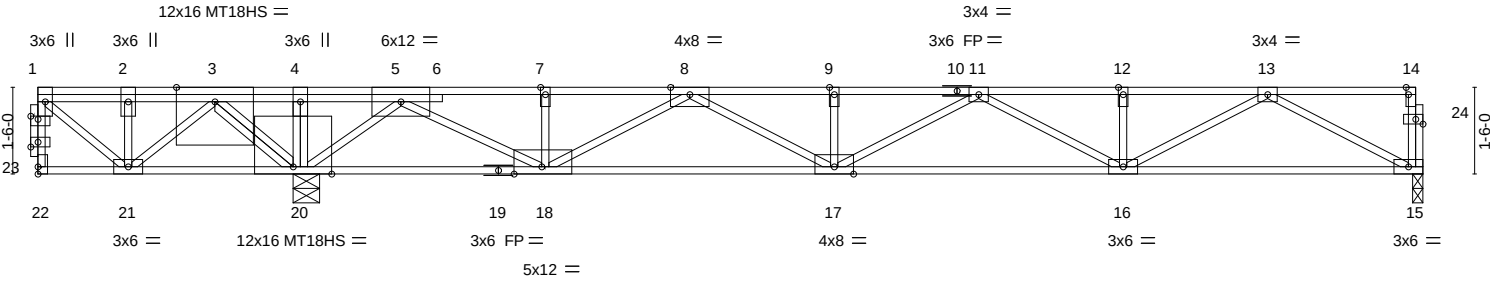
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F18G	Floor Special	2	1	I50150122
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:57 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-IH1EFUwq2fkaTONEHGz?SJwyvITpL2cZedrE_wzmuGG



0-1-8
Scale = 1:39.9



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED
LOADS AT ITS CANTILEVERED END(S).

Plate Offsets (X,Y)--		[1:0-1-8,0-0-10], [14:0-1-8,Edge], [18:0-5-12,Edge], [23:0-1-8,0-1-0], [24:0-1-8,0-1-0]	
LOADING (psf)		SPACING- 1-4-0	
TCLL 40.0		Plate Grip DOL 1.00	
TCDL 25.0		Lumber DOL 1.00	
BCLL 0.0		Rep Stress Incr NO	
BCDL 10.0		Code IBC2018/TPI2014	
CSI.		DEFL.	
TC 0.61		in (loc) l/defl L/d	
BC 0.89		Vert(LL) 0.19 17-18 >999 480	
WB 0.68		Vert(CT) 0.13 17 >999 360	
Matrix-S		Horz(CT) -0.05 15 n/a n/a	
PLATES		GRIP	
MT20		197/144	
MT18HS		197/144	
Weight: 108 lb		FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E(flat) *Except*
10-14: 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 21-22.

REACTIONS.

(size) 20=0-5-8, 15=0-2-2
Max Grav 20=6843(LC 1), 15=564(LC 4)

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

TOP CHORD 3-4=0/6136, 4-5=0/6136, 5-7=0/3514, 7-8=0/3514, 8-9=-534/1491, 9-11=-534/1491, 11-12=-1215/301, 12-13=-1215/301
BOT CHORD 20-21=-415/0, 18-20=-4993/0, 17-18=-2434/0, 16-17=-820/1073, 15-16=-65/843
WEBS 4-20=-254/0, 3-20=-7766/0, 3-21=0/453, 13-15=-952/75, 13-16=-269/425, 11-16=0/593, 11-17=-765/0, 8-17=0/1257, 8-18=-1701/0, 5-18=0/2393, 5-20=-2166/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
- 5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5000 lb down at 3-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-14=-87
Concentrated Loads (lb)
Vert: 3=5000(F)



February 10,2022

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

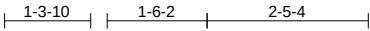


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

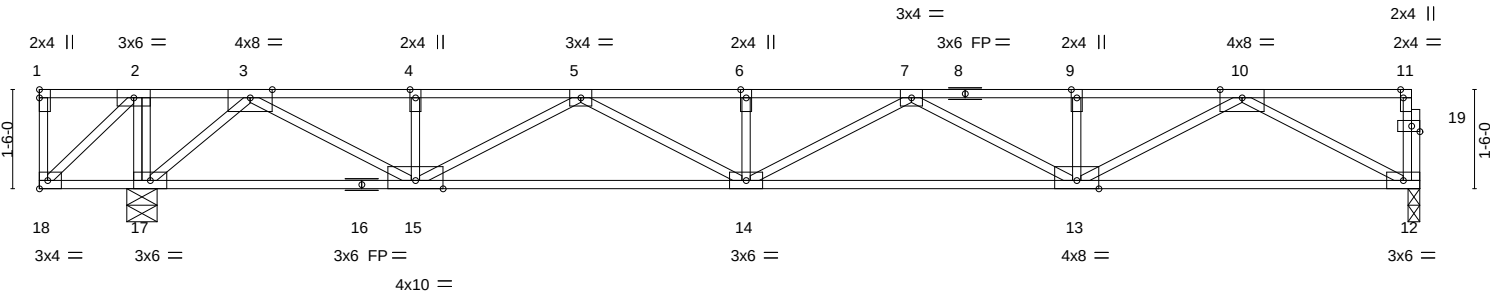
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F19	Floor	12	1	I50150123
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:07:58 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-ETbcSpxSpysR5YyRrzUE_WSA7ims4Z4isHanXMzmuGF



0-1-8

Scale = 1:34.8



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

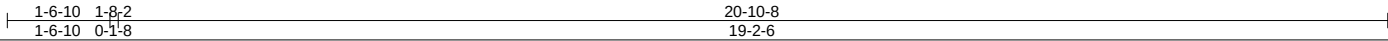


Plate Offsets (X,Y)--		[11:0-1-8,Edge], [19:0-1-8,0-1-0]									
LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0		Plate Grip DOL	1.00	TC 0.45		Vert(LL)	-0.19 14	>999	480	MT20	197/144
TCDL 25.0		Lumber DOL	1.00	BC 0.96		Vert(CT)	-0.35 14-15	>653	360		
BCLL 0.0		Rep Stress Incr	YES	WB 0.41		Horz(CT)	0.07 12	n/a	n/a		
BCDL 10.0		Code IBC2018/TPI2014		Matrix-S						Weight: 85 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 12=0-2-2, 17=0-5-8
Max Grav 12=952(LC 4), 17=1115(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-2280/0, 4-5=-2280/0, 5-6=-3364/0, 6-7=-3364/0, 7-9=-2639/0, 9-10=-2639/0
BOT CHORD 15-17=0/1028, 14-15=0/3019, 13-14=0/3201, 12-13=0/1563
WEBS 10-12=-1770/0, 10-13=0/1228, 7-13=-641/0, 5-14=0/401, 5-15=-849/0, 3-15=0/1437, 3-17=-1364/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
- 3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



February 10,2022

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



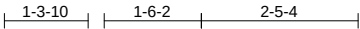
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

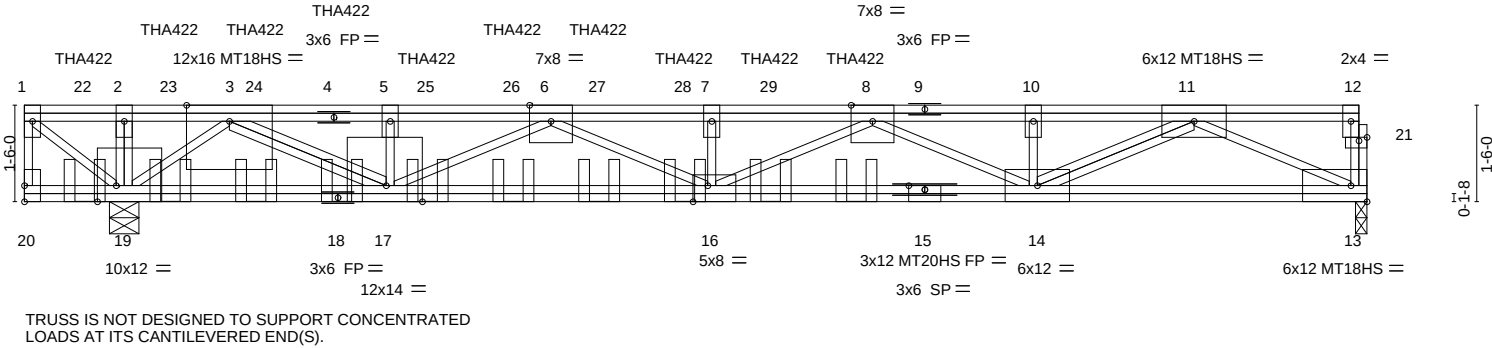
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F19G	FLOOR GIRDER	2	1	I50150124
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:00 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-AsjMtVylLa69Kr6pyOXi4xYTUWWRYLx?Kb3ubFzmuGD



0-1-8
Scale = 1:35.8



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

1-6-10				20-10-8			
1-6-10				19-3-14			
Plate Offsets (X,Y)-- [16:0-2-12,Edge], [17:0-6-12,Edge], [19:0-3-8,Edge], [21:0-1-8,0-0-10]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d	
TCLL	40.0	Plate Grip DOL	1.00	TC 0.58	Vert(LL) -0.28 16	>813	480
TCDL	25.0	Lumber DOL	1.00	BC 0.76	Vert(CT) -0.54 16	>427	360
BCLL	0.0	Rep Stress Incr	NO	WB 0.96	Horz(CT) 0.08 13	n/a	n/a
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S			
						PLATES	GRIP
						MT20	197/144
						MT20HS	148/108
						MT18HS	197/144
						Weight: 135 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat) *Except* 1-9,4-12: 2x4 SPF 2100F 1.8E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF 2100F 1.8E(flat) *Except* 18-20: 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 13=0-2-2, 19=0-5-8
Max Grav 13=2249(LC 4), 19=3810(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-7932/0, 5-6=-7992/0, 6-7=-11251/0, 7-8=-11251/0, 8-10=-7451/0, 10-11=-7429/0
BOT CHORD 17-19=0/3878, 16-17=0/10504, 14-16=0/10078, 13-14=0/4434
WEBS 2-19=-773/0, 11-13=-4834/0, 11-14=0/3399, 10-14=-336/0, 8-14=-2918/0, 8-16=0/1350, 7-16=-872/0, 6-16=0/843, 6-17=-2798/0, 5-17=-903/0, 3-17=0/4619, 3-19=-4859/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x6 MT20 unless otherwise indicated.
 - 4) The Fabrication Tolerance at joint 15 = 11%
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
 - 6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.
 - 9) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-4-0 oc max. starting at 0-11-4 from the left end to 12-11-4 to connect truss(es) to front face of top chord.
 - 10) Fill all nail holes where hanger is in contact with lumber.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-20, 1-12=-130
Concentrated Loads (lb)
Vert: 4=-290(F) 8=-296(F) 22=-345(F) 23=-290(F) 24=-290(F) 25=-290(F) 26=-290(F) 27=-290(F) 28=-290(F) 29=-290(F)



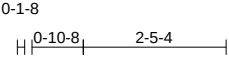
February 10,2022

Building 1

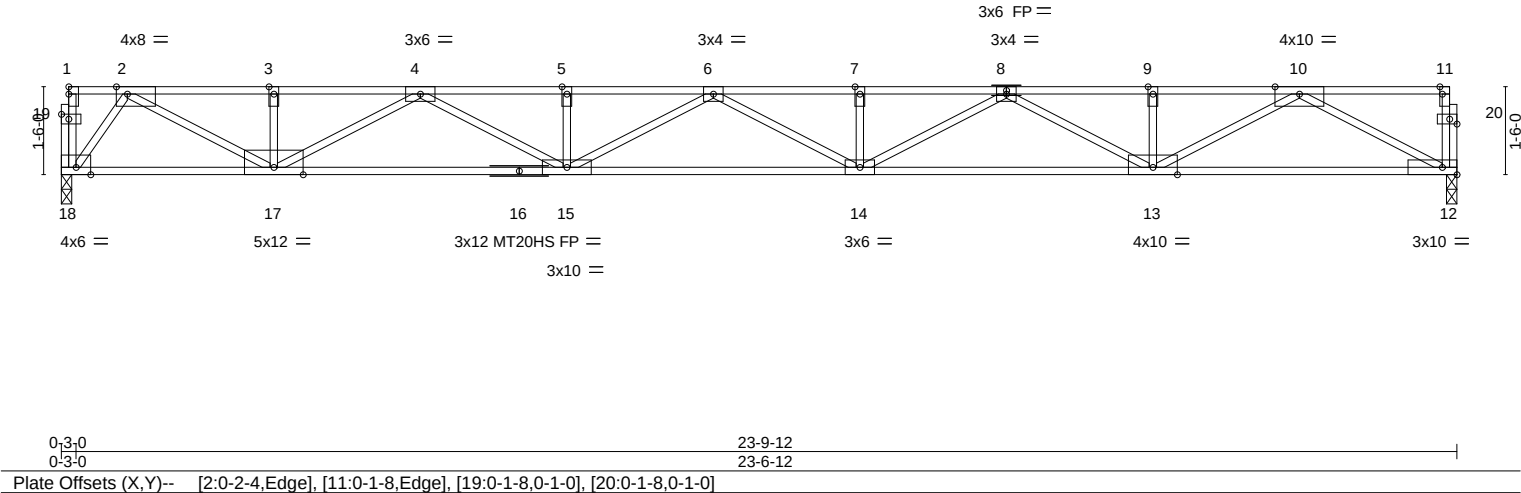
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F21	Floor	64	1	I50150125
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:01 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-e2Hk5rzL6tEOy?h0W52xc94bTwtKHuJ9YFpR7hzmuGC



0-1-8
Scale = 1:39.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	in (loc)	l/defl	L/d	MT20	197/144	
TCDL	25.0	Lumber DOL	1.00	BC	0.66	Vert(LL)	-0.36 14-15	>779	480	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Vert(CT)	-0.70 14-15	>403	360		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S		Horz(CT)	0.10 12	n/a	n/a		
										Weight: 95 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS. (size) 18=0-2-2, 12=0-2-2
Max Grav 18=1173(LC 1), 12=1173(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2595/0, 3-4=-2595/0, 4-5=-4693/0, 5-6=-4693/0, 6-7=-4973/0, 7-8=-4973/0, 8-9=-3449/0, 9-10=-3449/0
BOT CHORD 17-18=0/839, 15-17=0/3844, 14-15=0/5035, 13-14=0/4414, 12-13=0/1975
WEBS 10-12=-2237/0, 10-13=0/1682, 8-13=-1101/0, 8-14=0/638, 6-15=-391/0, 4-15=0/969, 4-17=-1425/0, 2-17=0/2004, 2-18=-1427/0

NOTES-

- 1) All plates are MT20 plates unless otherwise indicated.
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18, 12.
- 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



February 10,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

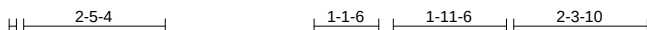
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0150126
B212230-G01F	F22	Floor	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

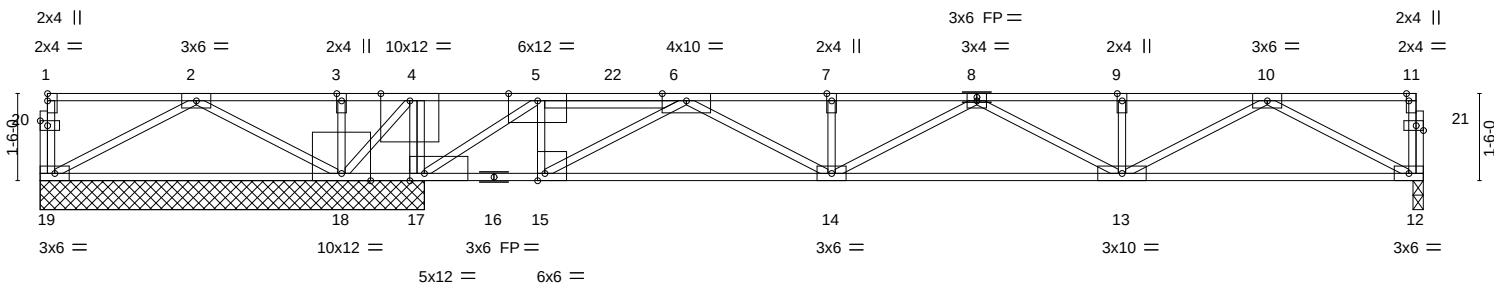
8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:02 2022 Page 1

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0-1-8



0-1-8
Scale = 1:39.7



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

	6-5-14	23-9-12
	6-5-14	17-3-14
Plate Offsets (X,Y)--	[11:0-1-8,Edge], [15:0-1-8,Edge], [17:0-3-0,Edge], [20:0-1-8,0-1-0], [21:0-1-8,0-1-0]	

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.83	Vert(LL)	-0.12 13-14	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.84	Vert(CT)	-0.22 13-14	>950	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.80	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S					Weight: 103 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat) *Except*
1-8: 2x4 DF 2400F 2.0E(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat) *Except*
5-6: 2x4 SPF 2100F 1.8E(flat)

BRACING-

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

REACTIONS.

(size) 19=6-7-6, 18=6-7-6, 12=0-2-2, 17=6-7-6
Max Uplift 19=-338(LC 4), 18=-1455(LC 4)
Max Grav 12=813(LC 4), 17=4249(LC 4)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/1685, 3-4=0/1685, 4-5=0/3598, 5-6=0/346, 6-7=-2346/0, 7-8=-2341/0,
8-9=-2130/0, 9-10=-2130/0
BOT CHORD 18-19=-737/0, 17-18=-3598/0, 15-17=-327/0, 14-15=0/1861, 13-14=0/2444,
12-13=0/1306
WEBS 4-17=-2127/0, 2-19=0/838, 2-18=-1221/0, 4-18=0/2826, 10-12=-1478/0, 10-13=0/940,
8-13=-358/0, 6-14=0/540, 6-15=-2489/0, 5-15=0/1246, 5-17=-3889/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 338 lb uplift at joint 19 and 1455 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1260 lb down at 9-10-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-19=-13, 1-11=-87
Concentrated Loads (lb)
Vert: 22=-1260(F)



February 10, 2022

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



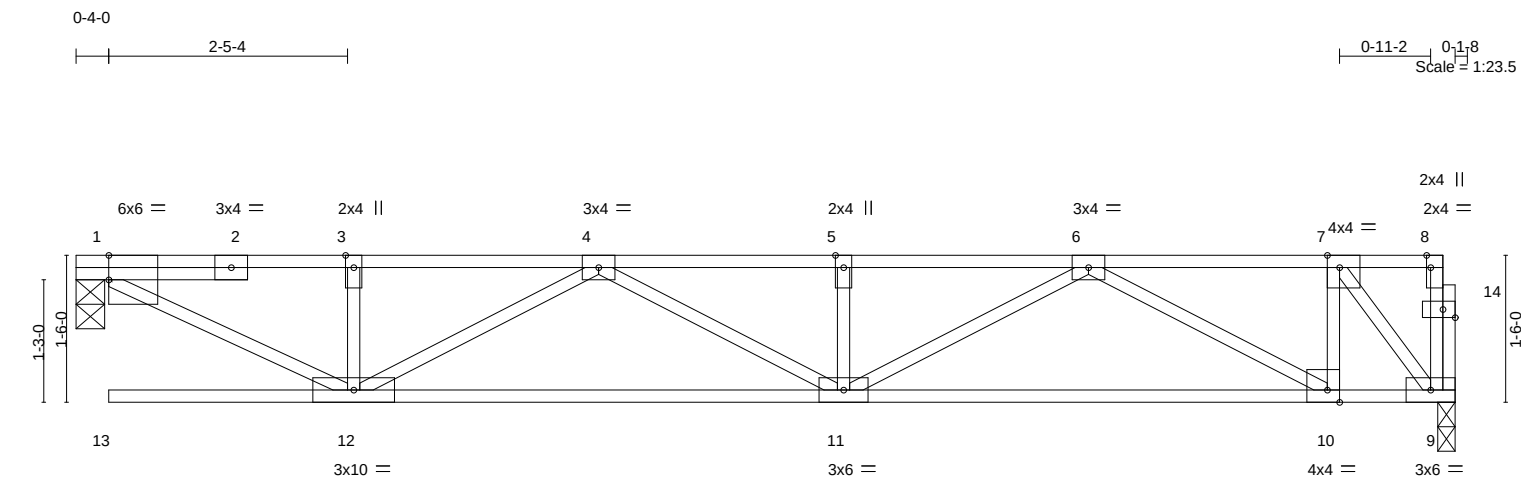
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0150127
B212230-G01F	F23	Floor	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:02 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-6Eq7IB_ztBMtZ9GC4pZA9MdvNJERO04InuY?g8zmuGB



0-4-0	14-0-14
0-4-0	13-8-14
Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [10:0-1-8,Edge], [14:0-1-8,0-1-0]	
LOADING (psf)	SPACING- 1-4-0
TCLL 40.0	Plate Grip DOL 1.00
TCDL 25.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 10.0	Code IBC2018/TPI2014
	CSI.
	TC 0.24
	BC 0.60
	WB 0.34
	Matrix-S
	DEFL. in (loc) l/defl L/d
	Vert(LL) -0.05 11 >999 480
	Vert(CT) -0.17 13 >981 360
	Horz(CT) 0.00 9 n/a n/a
	PLATES MT20
	GRIP 197/144
	Weight: 58 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 9=0-2-2, 1=0-3-8
Max Grav 9=675(LC 1), 1=681(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1071/0, 3-4=-1068/0, 4-5=-1712/0, 5-6=-1712/0, 6-7=-550/0
BOT CHORD 11-12=0/1590, 10-11=0/1333, 9-10=0/550
WEBS 1-12=0/1206, 4-12=-596/0, 6-11=0/432, 6-10=-894/0, 7-10=0/493, 7-9=-871/0

- NOTES-**
- 1) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
 - 2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 5) CAUTION, Do not erect truss backwards.



February 10,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

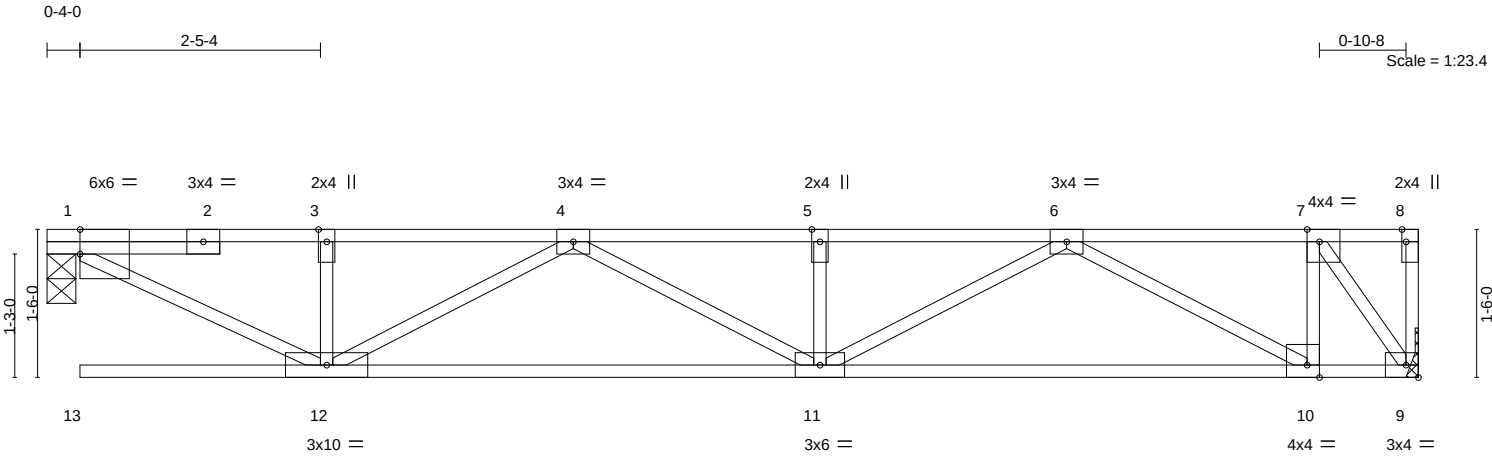
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F24	Floor	4	1	I50150128
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:03 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-aROVVX_beVVkBjRdW4PhaA49jallrNR0YIYCazmuGA



0-4-0				13-10-12							
0-4-0				13-6-12							
Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [10:0-1-8,Edge]											
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	40.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.05 11	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.17 13	>975	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.00 9	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S						Weight: 56 lb	FT = 20%F, 11%E

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

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

REACTIONS. (size) 1=0-3-8, 9=Mechanical
Max Grav 1=675(LC 1), 9=675(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1061/0, 3-4=-1057/0, 4-5=-1680/0, 5-6=-1680/0, 6-7=-498/0
BOT CHORD 11-12=0/1570, 10-11=0/1292, 9-10=0/498
WEBS 1-12=0/1194, 4-12=-584/0, 6-11=0/444, 6-10=-905/0, 7-10=0/501, 7-9=-846/0

NOTES-
1) Refer to girder(s) for truss to truss connections.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
5) CAUTION, Do not erect truss backwards.



February 10,2022

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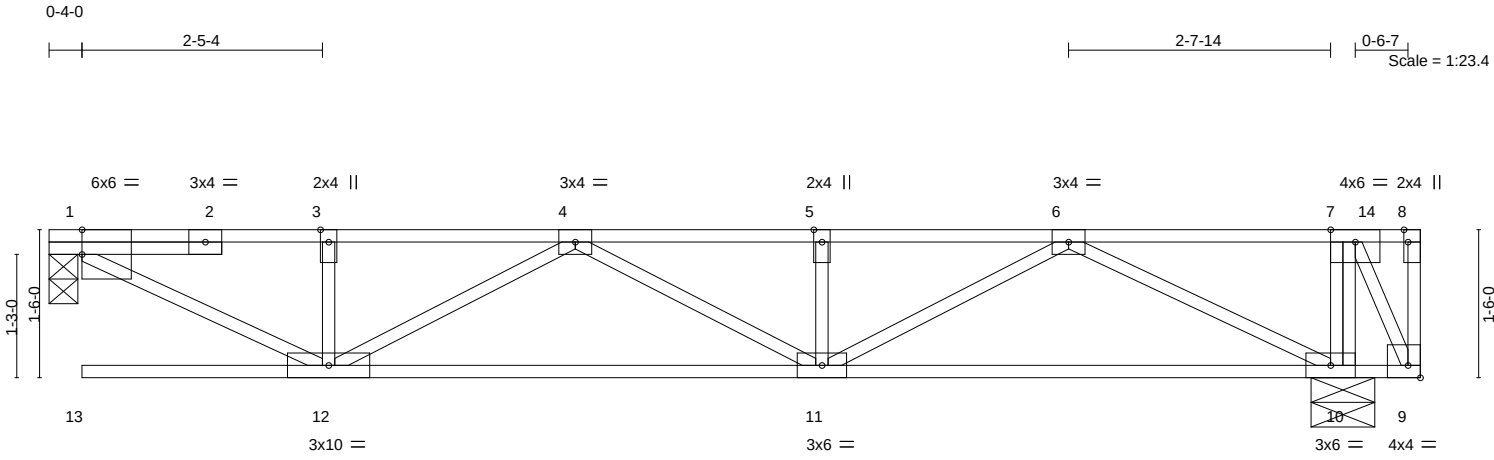
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F25	Floor	4	1	I50150129
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:04 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-2dytjt?DoodbpTPaBEbeEniFj7wWUJzbFC16k0zmuG9



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

0-4-0		12-11-14		13-10-12	
0-4-0		12-7-14		13-1-6	
Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:Edge,0-1-8]					
LOADING (psf)		SPACING- 1-4-0		CSI.	
TCLL 40.0		Plate Grip DOL 1.00		TC 0.25	
TCDL 25.0		Lumber DOL 1.00		BC 0.56	
BCLL 0.0		Rep Stress Incr YES		WB 0.32	
BCDL 10.0		Code IBC2018/TPI2014		Matrix-S	
				DEFL. in (loc) l/defl L/d	
				Vert(LL) -0.04 11-12 >999 480	
				Vert(CT) -0.17 13 >917 360	
				Horz(CT) 0.00 10 n/a n/a	
				PLATES	
				MT20	
				GRIP	
				197/144	
				Weight: 58 lb	
				FT = 20%F, 11%E	

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

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

REACTIONS. (size) 1=0-3-8, 10=0-7-12
Max Grav 1=638(LC 3), 10=713(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-993/0, 3-4=-990/0, 4-5=-1477/0, 5-6=-1477/0
BOT CHORD 11-12=0/1435, 10-11=0/1024
WEBS 1-12=0/1118, 4-12=-508/0, 6-11=0/519, 6-10=-1090/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
5) CAUTION, Do not erect truss backwards.



February 10,2022

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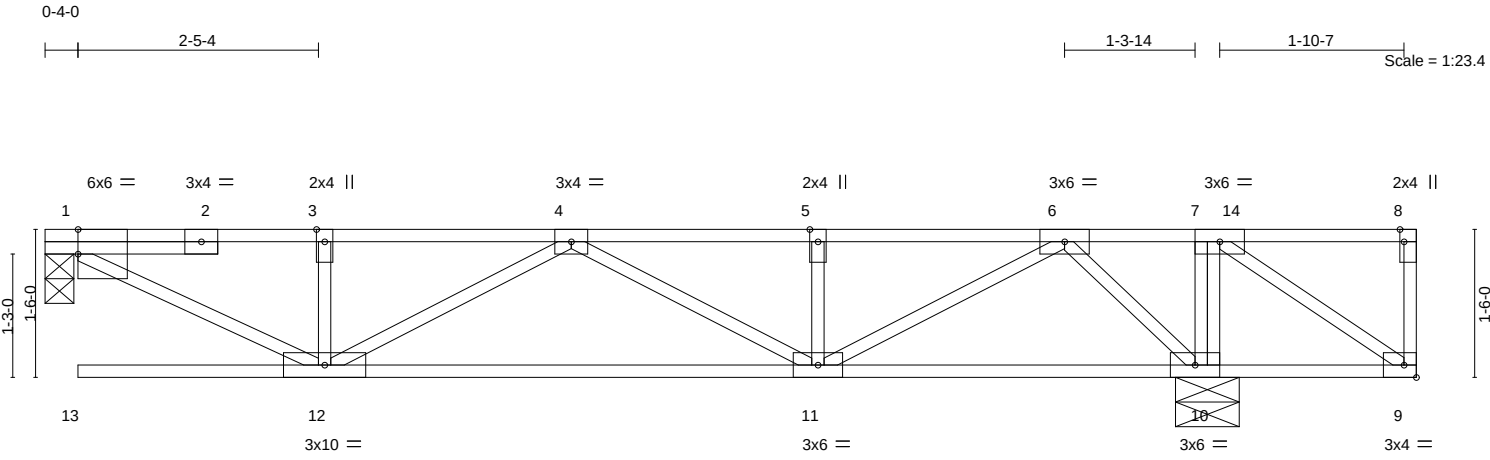
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F26	Floor	4	1	I50150130
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:05 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-XpWFWdOr96lRQc_nlx6tn?FQ4XHsDlukTsnfGSzmuG8



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

0-4-0	11-7-14	11-9-6	13-10-12
0-4-0	11-3-14	0-1-8	2-1-7
Plate Offsets (X,Y)-- [8:0-1-8,Edge]			
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 40.0	1-4-0	TC 0.21	in (loc) l/defl L/d
TCDL 25.0	Plate Grip DOL 1.00	BC 0.49	Vert(LL) -0.03 11-12 >999 480
BCLL 0.0	Lumber DOL 1.00	WB 0.27	Vert(CT) -0.15 13 >911 360
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 10 n/a n/a
	Code IBC2018/TPI2014		
		PLATES	GRIP
		MT20	197/144
		Weight: 58 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.
WEBS 2x4 SPF No.2(flat)	
REACTIONS.	
(size) 1=0-3-8, 10=0-7-12	
Max Grav 1=564(LC 3), 10=796(LC 1)	
FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-3=-859/0, 3-4=-856/0, 4-5=-1072/0, 5-6=-1072/0	
BOT CHORD 11-12=0/1162, 10-11=0/480	
WEBS 1-12=0/967, 4-12=-349/0, 6-11=0/699, 6-10=-732/0	

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 5) CAUTION, Do not erect truss backwards.



February 10,2022

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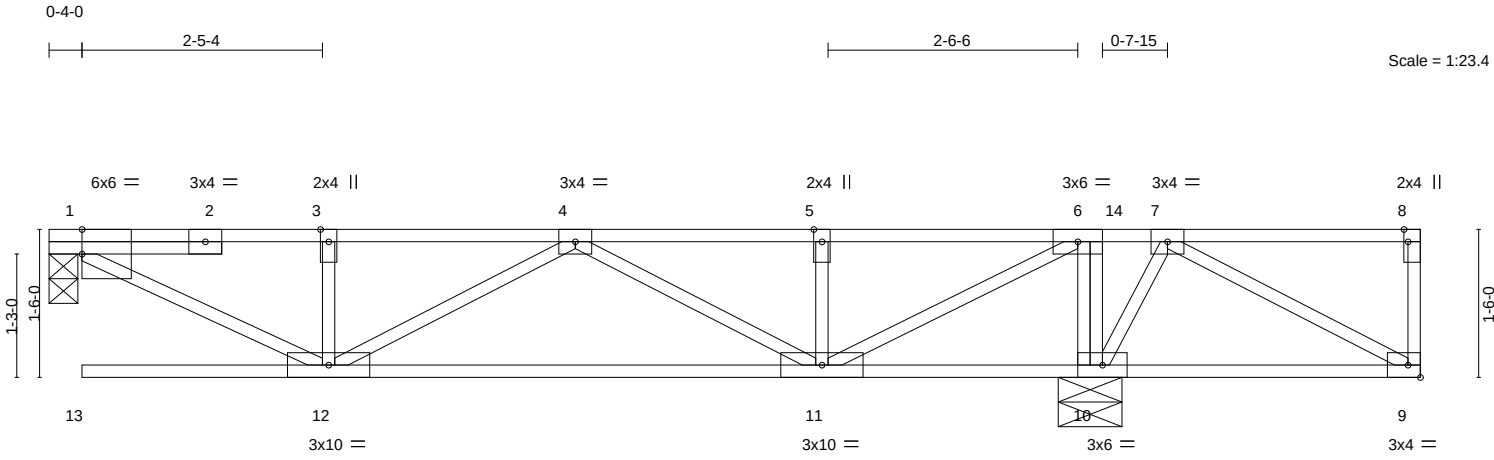


Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F27	Floor	4	1	I50150131
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:07 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-TCe0Lu16hj?9gw89sM9LsQKkpK_ShfR1xAGmLLzmuG6



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

0-4-0	10-6-10	10-8-2	13-10-12
0-4-0	10-2-10	0-1-8	3-2-11
Plate Offsets (X,Y)-- [8:0-1-8,Edge]			
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.32
TCDL 25.0	Lumber DOL	1.00	BC 0.42
BCLL 0.0	Rep Stress Incr	YES	WB 0.27
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.02 11-12	>999	480
Vert(CT)	-0.14 13	>901	360
Horz(CT)	-0.00 10	n/a	n/a
PLATES	GRIP		
MT20	197/144		
Weight: 58 lb	FT = 20%F, 11%E		

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

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

REACTIONS. (size) 1=0-3-8, 10=0-7-12
Max Grav 1=486(LC 3), 10=892(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-720/0, 3-4=-716/0, 4-5=-650/0, 5-6=-650/0, 6-7=0/369
BOT CHORD 11-12=0/878, 10-11=-369/0
WEBS 6-10=-580/0, 1-12=0/809, 4-11=-317/0, 6-11=0/951, 7-10=-359/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
5) CAUTION, Do not erect truss backwards.



February 10,2022

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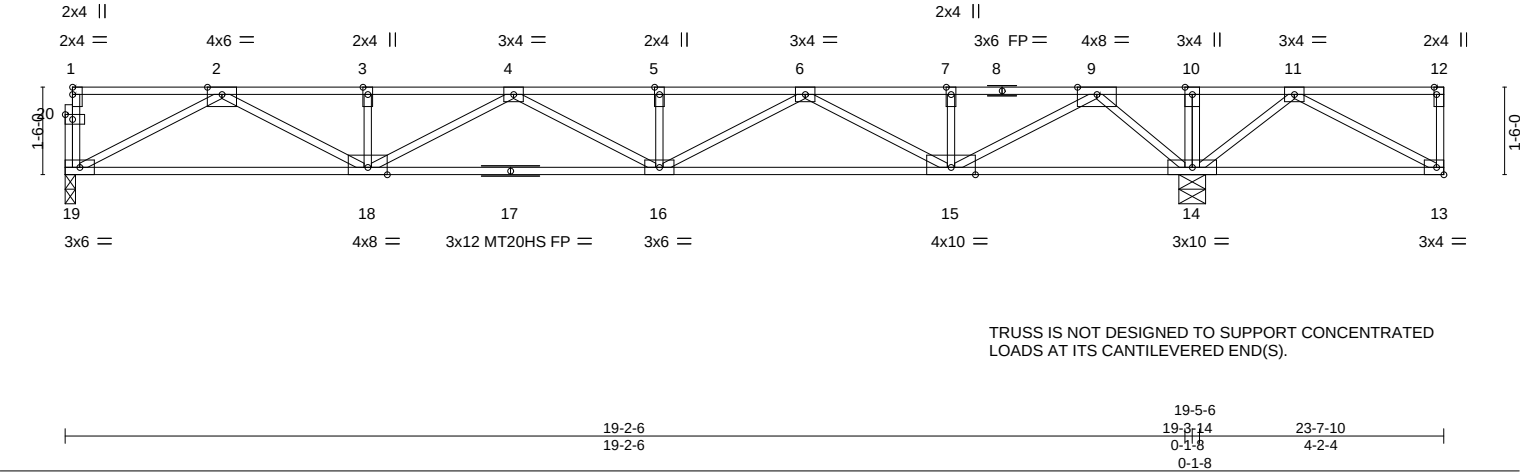
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F28	Floor	8	1	I50150132
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:07 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-TCe0Lu16hj79gw89sM9LsQKjGKsOhdy1xAGmLLZmuG6



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

Plate Offsets (X,Y)--		[12:0-1-8,Edge], [20:0-1-8,0-1-0]									
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0		Plate Grip DOL 1.00		TC 0.42		Vert(LL)	-0.19 16	>999	480	MT20	197/144
TCDL 25.0		Lumber DOL 1.00		BC 0.94		Vert(CT)	-0.34 15-16	>677	360	MT20HS	148/108
BCLL 0.0		Rep Stress Incr YES		WB 0.43		Horz(CT)	0.07 14	n/a	n/a		
BCDL 10.0		Code IBC2018/TPI2014		Matrix-S						Weight: 95 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 19=0-2-2, 14=0-5-8
Max Grav 19=933(LC 3), 14=1432(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2569/0, 3-4=-2569/0, 4-5=-3225/0, 5-6=-3225/0, 6-7=-2069/0, 7-9=-2069/0, 9-10=0/629, 10-11=0/630
BOT CHORD 18-19=0/1528, 16-18=0/3096, 15-16=0/2844, 14-15=-104/789
WEBS 2-19=-1729/0, 2-18=0/1188, 4-18=-602/0, 6-16=0/487, 6-15=-936/0, 9-15=0/1514, 9-14=-1428/0, 11-14=-547/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
 - 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



February 10,2022

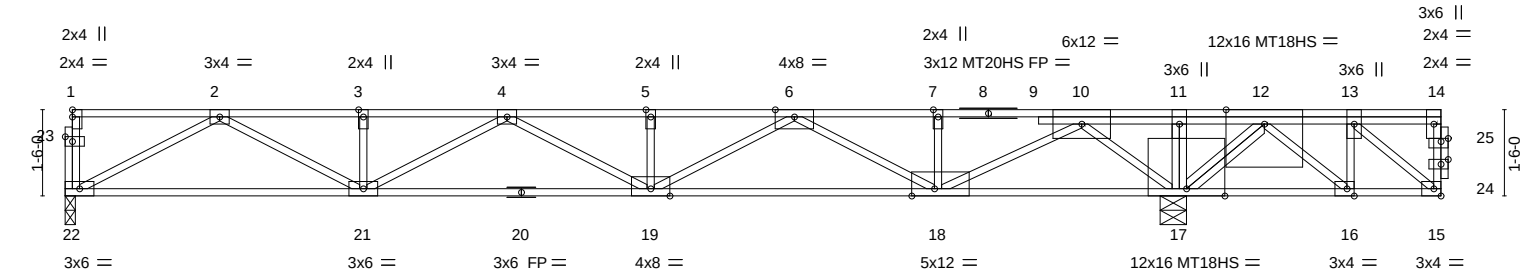
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F28G	Floor Special	4	1	I50150133
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:08 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-xOCOZE2kS170H4jMQ3gaOdrAkDdQ0JAAq0JtnzmuG5



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

	19-4-10	19-4-10	19-6-2	24-0-12
			0-1-8	4-6-10
Plate Offsets (X,Y)--	[16:0-1-8,Edge], [18:0-4-12,Edge], [23:0-1-8,0-1-0], [24:0-1-8,0-1-0], [25:0-1-8,0-0-10]			

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.60	Vert(LL)	0.19 18-19	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.87	Vert(CT)	0.13 19	>999	360	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	NO	WB 0.68	Horz(CT)	-0.05 17	n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S					Weight: 108 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat) *Except* 15-20: 2x4 SPF 2100F 1.8E(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 22=0-2-2, 17=0-5-8
Max Grav 22=561(LC 3), 17=6836(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1206/305, 3-4=-1206/305, 4-5=-515/1497, 5-6=-515/1497, 6-7=0/3524, 7-10=0/3524, 10-11=0/6120, 11-12=0/6120
BOT CHORD 21-22=-66/837, 19-21=-824/1060, 18-19=-2442/0, 17-18=-5005/0, 16-17=-404/0
WEBS 11-17=-251/0, 2-22=-946/77, 2-21=-272/421, 4-21=0/593, 4-19=-768/0, 6-19=0/1261, 6-18=-1705/0, 10-18=0/2398, 10-17=-2134/0, 12-17=-7759/0, 12-16=0/448, 13-16=-273/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
 - 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5000 lb down at 20-10-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-14=-87
Concentrated Loads (lb)
Vert: 12=-5000(F)



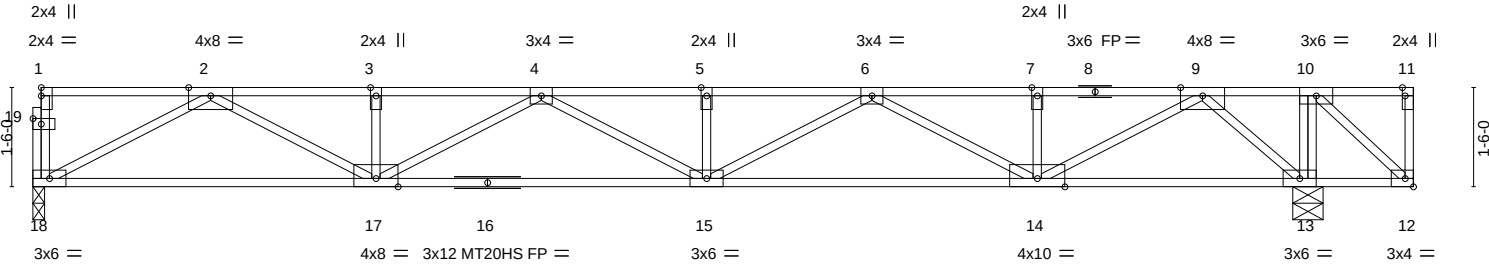
February 10,2022

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F29	Floor	24	1	I50150134
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:09 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-Pblmma3MDLFtVtIY_nBpxrP3O8YU9XnKOUlsQEzmuG4



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

	19-1-14	19-1-14	19-3-6 20-10-8
			0-1-8 1-7-2

Plate Offsets (X,Y)--		[11:0-1-8,Edge], [19:0-1-8,0-1-0]									
LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0		Plate Grip DOL	1.00	TC 0.44		Vert(LL)	-0.18 15	>999	480	MT20	197/144
TCDL 25.0		Lumber DOL	1.00	BC 0.96		Vert(CT)	-0.35 14-15	>657	360	MT20HS	148/108
BCLL 0.0		Rep Stress Incr	YES	WB 0.41		Horz(CT)	0.07 13	n/a	n/a		
BCDL 10.0		Code IBC2018/TPI2014		Matrix-S						Weight: 85 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 18=0-2-2, 13=0-5-8
Max Grav 18=950(LC 3), 13=1117(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2631/0, 3-4=-2631/0, 4-5=-3348/0, 5-6=-3348/0, 6-7=-2256/0, 7-9=-2256/0
BOT CHORD 17-18=0/1559, 15-17=0/3189, 14-15=0/2998, 13-14=0/1000
WEBS 2-18=-1765/0, 2-17=0/1223, 4-17=-636/0, 6-15=0/406, 6-14=-854/0, 9-14=0/1442, 9-13=-1345/0

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

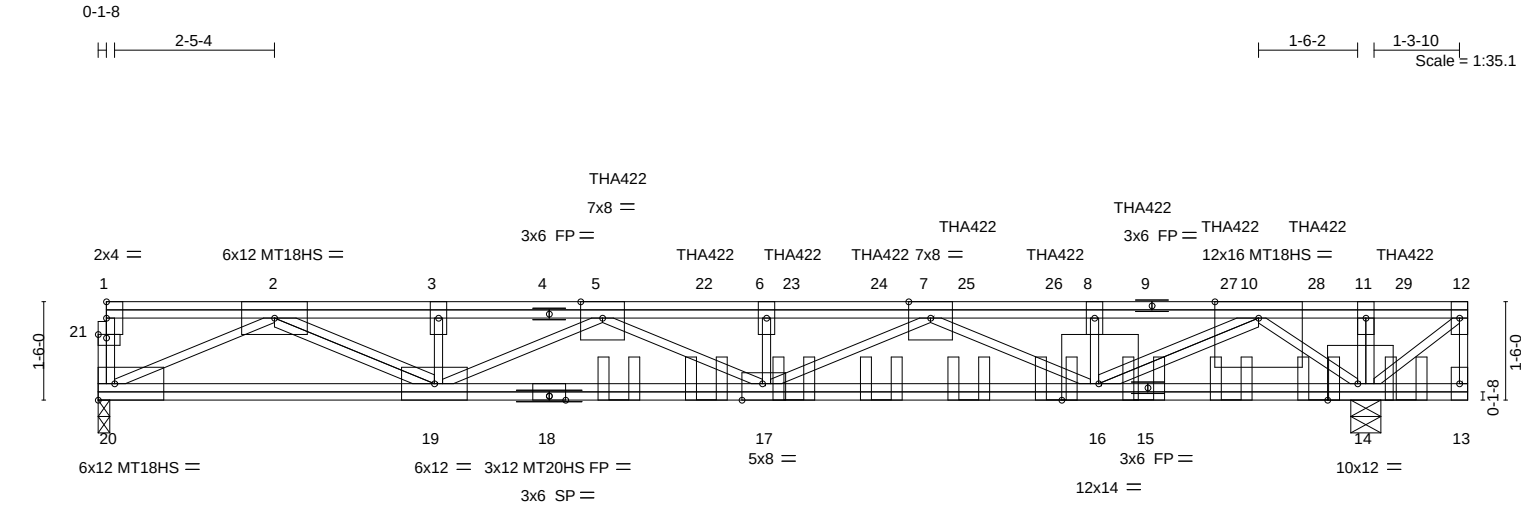


February 10,2022

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	F29G	FLOOR GIRDER	4	1	I50150135
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:11 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-LztWBG5clyVb9XSx5CDH0GVMjxG0dJgds0EzU6zmuG2



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

Plate Offsets (X,Y)--		[14:0-5-8,Edge], [16:0-6-12,Edge], [17:0-3-12,Edge], [21:0-1-8,0-0-10]	
LOADING (psf)		SPACING- 2-0-0	
TCLL 40.0		Plate Grip DOL 1.00	
TCDL 25.0		Lumber DOL 1.00	
BCLL 0.0		Rep Stress Incr NO	
BCDL 10.0		Code IBC2018/TPI2014	
		CSI.	
		TC 0.58	
		BC 0.76	
		WB 0.96	
		Matrix-S	
		DEFL.	
		in (loc) l/defl L/d	
		Vert(LL) -0.28 17 >813 480	
		Vert(CT) -0.54 17 >427 360	
		Horz(CT) 0.08 14 n/a n/a	
		PLATES GRIP	
		MT20 197/144	
		MT20HS 148/108	
		MT18HS 197/144	
		Weight: 135 lb FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD 2x4 SPF 2100F 1.8E(flat) *Except* 1-4,9-12: 2x4 SPF No.2(flat)		TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD 2x4 SPF 2100F 1.8E(flat) *Except* 13-15: 2x4 SPF No.2(flat)		BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS 2x4 SPF No.2(flat)			

REACTIONS. (size) 20=0-2-2, 14=0-5-8
Max Grav 20=2249(LC 3), 14=3810(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7429/0, 3-5=-7451/0, 5-6=-11250/0, 6-7=-11250/0, 7-8=-7992/0, 8-10=-7932/0
BOT CHORD 19-20=0/4434, 17-19=0/10078, 16-17=0/10504, 14-16=0/3877
WEBS 11-14=-773/0, 2-20=-4834/0, 2-19=0/3399, 3-19=-336/0, 5-19=-2918/0, 5-17=0/1350, 6-17=-872/0, 7-17=0/842, 7-16=-2798/0, 8-16=-903/0, 10-16=0/4619, 10-14=-4859/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x6 MT20 unless otherwise indicated.
 - 4) The Fabrication Tolerance at joint 18 = 11%
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
 - 6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.
 - 9) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-4-0 oc max. starting at 7-11-4 from the left end to 19-11-4 to connect truss(es) to back face of top chord.
 - 10) Fill all nail holes where hanger is in contact with lumber.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-20, 1-12=-130
Concentrated Loads (lb)
Vert: 9=-290(B) 5=-296(B) 22=-290(B) 23=-290(B) 24=-290(B) 25=-290(B) 26=-290(B) 27=-290(B) 28=-290(B) 29=-345(B)



February 10,2022

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	L11	Floor Supported Gable	2	1	I50150136
					Job Reference (optional)

Mill Creek Truss, LLC,

Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:12 2022 Page 1

ID:NV6bSMes78VGO_cjNstCYwy9Jso-pARuOc5EWGdSmh17fvkWZT1fZLn?M_Zm4S_X0YzmuG1

0-1-8

0-1-8

Scale = 1:39.9

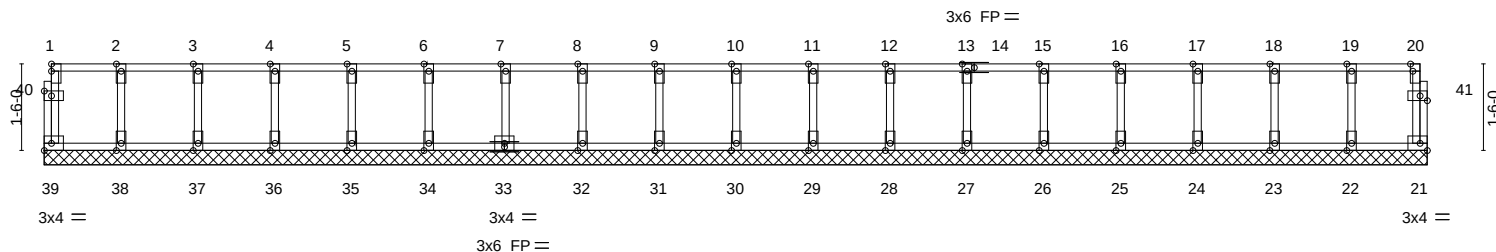


Plate Offsets (X,Y)--		[20:0-1-8,Edge], [40:0-1-8,0-1-0], [41:0-1-8,0-1-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06
TCDL 10.0	Lumber DOL	1.00	BC 0.01
BCLL 0.0	Rep Stress Incr	YES	WB 0.02
BCDL 5.0	Code	IRC2018/TPI2014	Matrix-R
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	n/a - n/a 999
		Vert(CT)	n/a - n/a 999
		Horz(CT)	0.00 21 n/a n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 84 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

All bearings 23-11-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 39, 21, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

NOTES-

- 1) All plates are 2x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



February 10,2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01F	L21	Floor Supported Gable	4	1	I50150137
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 9 11:08:15 2022 Page 1
ID:NV6bSMes78VGO_cjNstCYwy9Jso-Ek711d87pB?1d9liiK2IEB6f9oZpkZLICnQCBdtzmuG_

0-1-8

0-1-8

Scale = 1:39.7

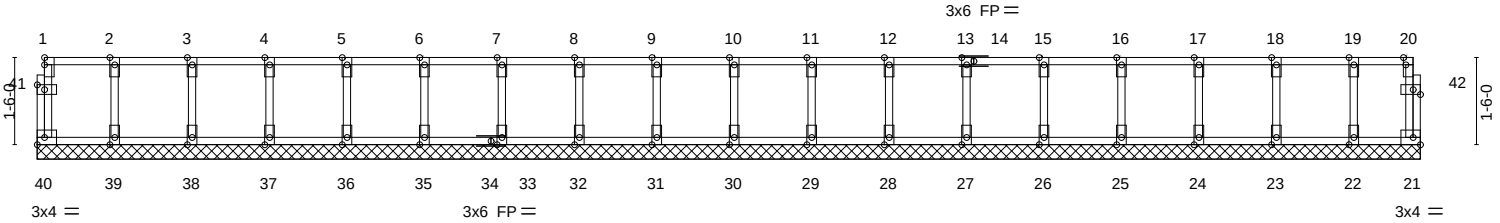


Plate Offsets (X,Y)--		[20:0-1-8,Edge], [41:0-1-8,0-1-0], [42:0-1-8,0-1-0]	
LOADING (psf)		SPACING- 2-0-0	
TCLL 40.0		Plate Grip DOL 1.00	
TCDL 10.0		Lumber DOL 1.00	
BCLL 0.0		Rep Stress Incr YES	
BCDL 5.0		Code IRC2018/TPI2014	
		CSI.	
		TC 0.07	
		BC 0.01	
		WB 0.02	
		Matrix-R	
		DEFL.	
		in (loc) l/defl L/d	
		Vert(LL) n/a - n/a 999	
		Vert(CT) n/a - n/a 999	
		Horz(CT) 0.00 21 n/a n/a	
		PLATES GRIP	
		MT20 197/144	
		Weight: 84 lb FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

All bearings 23-9-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

NOTES-

- 1) All plates are 2x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



February 10,2022

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

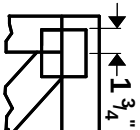
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



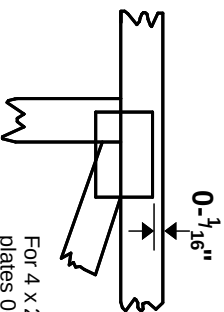
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless X, Y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

*** Plate location details available in MITek 20120 software or upon request.**

PLATE SIZE

4 X 4

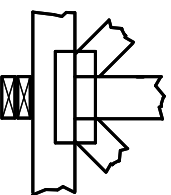
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



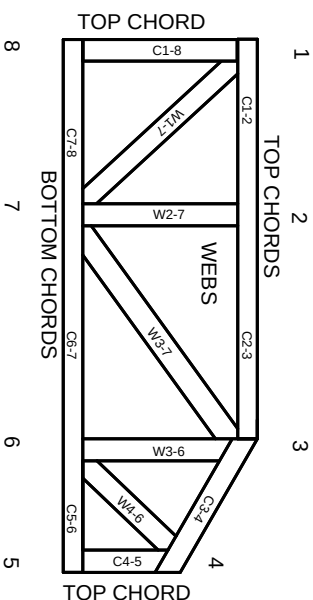
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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Mitek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



RE: B212230-G01R - Brinkmann Constructors

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200**Site Information:**

Project Customer: Valued customer Project Name: BRINKMANN CONSTRUCTORS

Lot/Block: Subdivision:

Model:

Address: TBD

City: Lee Summit

State: Mo

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IBC2018/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16 Wind Speed: 115 mph

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Roof Load: 40.0 psf

Floor Load: N/A psf

Mean Roof Height (feet): 25

Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I50215639	J02	2/15/22	35	I50215673	T35	2/15/22
2	I50215640	T01	2/15/22	36	I50215674	T36	2/15/22
3	I50215641	T02	2/15/22	37	I50215675	T37	2/15/22
4	I50215642	T03	2/15/22	38	I50215676	T38	2/15/22
5	I50215643	T04	2/15/22	39	I50215677	T39	2/15/22
6	I50215644	T05	2/15/22	40	I50215678	T40	2/15/22
7	I50215645	T06	2/15/22	41	I50215679	T41	2/15/22
8	I50215646	T07	2/15/22	42	I50215680	T42	2/15/22
9	I50215647	T08	2/15/22	43	I50215681	T43	2/15/22
10	I50215648	T09	2/15/22	44	I50215682	T44	2/15/22
11	I50215649	T10	2/15/22	45	I50215683	T45	2/15/22
12	I50215650	T12	2/15/22	46	I50215684	T46	2/15/22
13	I50215651	T13	2/15/22	47	I50215685	T47	2/15/22
14	I50215652	T14	2/15/22	48	I50215686	T48	2/15/22
15	I50215653	T15	2/15/22	49	I50215687	T49	2/15/22
16	I50215654	T16	2/15/22	50	I50215688	TGE01	2/15/22
17	I50215655	T17	2/15/22	51	I50215689	TGE02	2/15/22
18	I50215656	T18	2/15/22	52	I50215690	TGE03	2/15/22
19	I50215657	T19	2/15/22	53	I50215691	TGE04	2/15/22
20	I50215658	T20	2/15/22	54	I50215692	TGE05	2/15/22
21	I50215659	T21	2/15/22	55	I50215693	TGE06	2/15/22
22	I50215660	T22	2/15/22	56	I50215694	TGE07	2/15/22
23	I50215661	T23	2/15/22	57	I50215695	TGE08	2/15/22
24	I50215662	T24	2/15/22	58	I50215696	TGE09	2/15/22
25	I50215663	T25	2/15/22	59	I50215697	TGE10	2/15/22
26	I50215664	T26	2/15/22	60	I50215698	TGE11	2/15/22
27	I50215665	T27	2/15/22	61	I50215699	TGE12	2/15/22
28	I50215666	T28	2/15/22	62	I50215700	TGE13	2/15/22
29	I50215667	T29	2/15/22	63	I50215701	TGE14	2/15/22
30	I50215668	T30	2/15/22	64	I50215702	TGE15	2/15/22
31	I50215669	T31	2/15/22	65	I50215703	TGE16	2/15/22
32	I50215670	T32	2/15/22	66	I50215704	TGE17	2/15/22
33	I50215671	T33	2/15/22	67	I50215705	TGE18	2/15/22
34	I50215672	T34	2/15/22	68	I50215706	TGE19	2/15/22

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Mill Creek Truss, LLC.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2023.

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



February 15, 2022



RE: B212230-G01R - Brinkmann Constructors

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

No.	Seal#	Truss Name	Date
69	I50215707	TGE20	2/15/22
70	I50215708	TGE21	2/15/22
71	I50215709	TGE22	2/15/22
72	I50215710	TGE23	2/15/22

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	J02	Jack-Closed	66	1	I50215639
Job Reference (optional)					

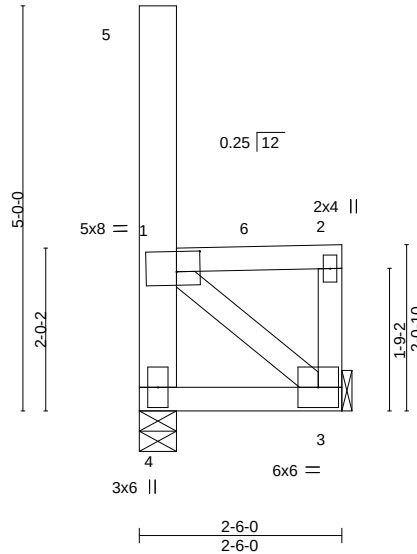
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:32 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly9311-Yypo4oroBV0P3dwG_ijHiz9qoFzC5_U9s_29QZzIHnf

2-6-0
2-6-0

Scale = 1:28.4



SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 02/19/2022 BY: cb

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.43	Vert(LL)	-0.00	3-4	>999	240	MT20	197/144
Snow (Pl/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT)	-0.00	3-4	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP							
BCDL 10.0	Code IBC2018/TPI2014								
								Weight: 18 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins,
except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-2 oc bracing.

REACTIONS.

(size) 4=0-5-8, 3=Mechanical
Max Horz 4=210(LC 11)
Max Uplift 4=268(LC 10), 3=258(LC 11)
Max Grav 4=300(LC 13), 3=288(LC 12)

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

TOP CHORD 1-4=-328/828
BOT CHORD 3-4=-496/826
WEBS 1-3=-1014/607

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 4 and 258 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48



February 15, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	J02	Jack-Closed	66	1	I50215639
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:32 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy9311-Yypo4oroBV0P3dwG_ijHiz9qoFzC5_U9s_29QZzIHnf

LOAD CASE(S) Standard

- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-41, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-52-to-6=-41
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=-12, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=-5, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=-12, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=-5, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215640
B212230-G01R	T01	Flat Girder	4	3	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:35 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly9311-yXVxiptgUQP_w4frfqG_KbnQ7S_3IKzcZxHp1uzIHnc

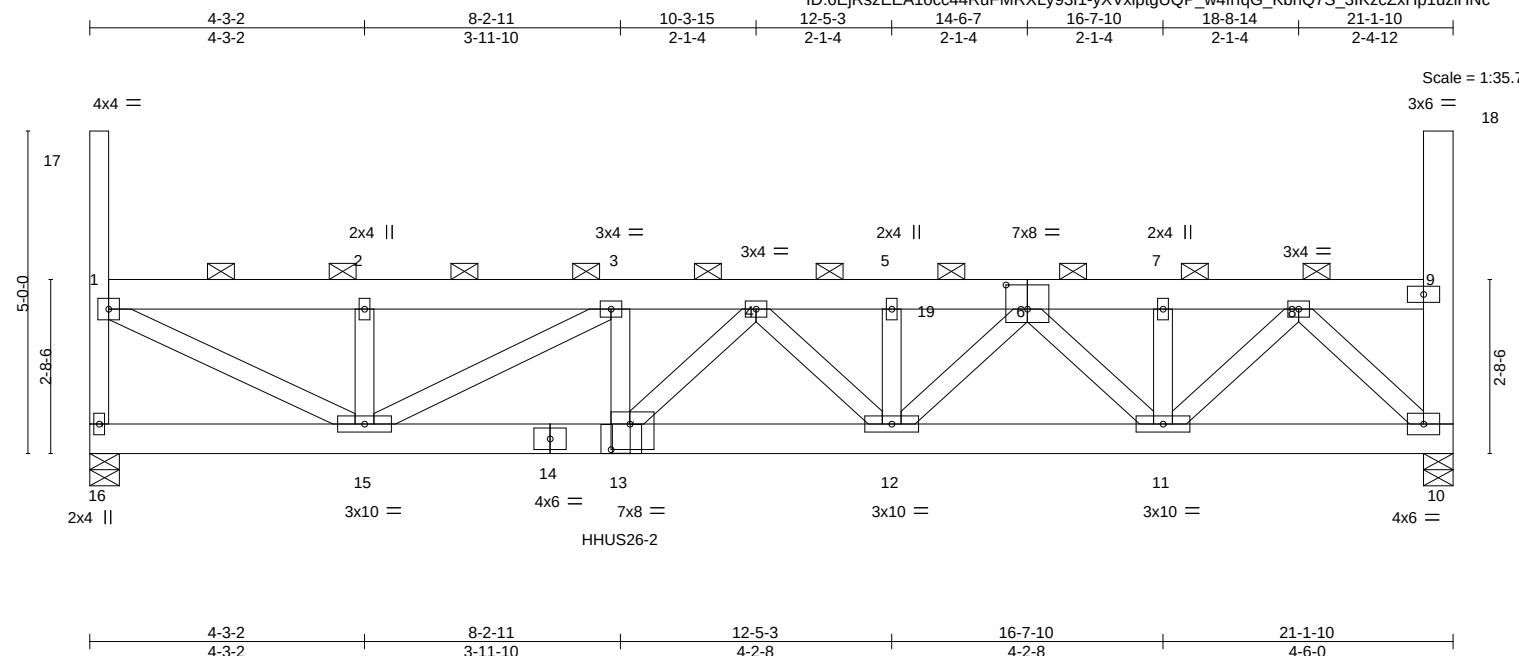


Plate Offsets (X,Y)-- [6:0-4-0,0-4-8], [13:0-3-8,0-4-12]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0		TC	0.10	in (loc)	l/defl	L/d	GRIP
Snow (Pf/Pg)	18.9/20.0	Plate Grip DOL	1.15	BC	0.18	Vert(LL)	-0.04 13	>999 240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	WB	0.23	Vert(CT)	-0.07 12-13	>999 180	
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-MS		Horz(CT)	0.02 10	n/a n/a	
BCDL	10.0	Code IBC2018/TPI2014							Weight: 370 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-17, 1-9, 9-18, except end verticals.
BOT CHORD 2x6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except*	
10-18: 2x6 SPF 1650F 1.5E	

REACTIONS. (size) 16=0-5-8, 10=0-5-8
 Max Horz 16=-279(LC 6)
 Max Uplift 16=-308(LC 6), 10=-180(LC 7)
 Max Grav 16=1543(LC 2), 10=1332(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-16=-1482/329, 1-2=-2536/620, 2-3=-2536/620, 3-4=-4313/1013, 4-5=-3572/743,
 5-6=-3572/743, 6-7=-2141/430, 7-8=-2141/430
 BOT CHORD 15-16=-292/298, 13-15=-1038/4313, 12-13=-885/4008, 11-12=-522/2927,
 10-11=-213/1173
 WEBS 1-15=-566/2821, 2-15=-295/99, 3-15=-2040/552, 3-13=-226/866, 4-13=-258/445,
 4-12=-637/274, 6-12=-268/942, 6-11=-1149/297, 8-11=-271/1415, 8-10=-1613/245

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-13 2x4 - 2 rows staggered at 0-7-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at joint 16 and 180 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 15, 2022

Continued on page 2

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

MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T01	Flat Girder	4	3	I50215640

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:35 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXly93l1-yXVxiptgUQP_w4frfqG_KbnQ7S_3IKzcZxHp1uzlHNc

- NOTES-**
- 11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie HHUS26-2 (14-16d Girder, 4-16d Truss) or equivalent at 8-2-14 from the left end to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

- LOAD CASE(S)**
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-19=-58, 10-16=-20
Concentrated Loads (lb)
Vert: 13=-960(F)
Trapezoidal Loads (plf)
Vert: 1=-73-to-3=-57, 19=-58-to-9=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-19=-60, 10-16=-20
Concentrated Loads (lb)
Vert: 13=-1155(F)
Trapezoidal Loads (plf)
Vert: 19=-60-to-9=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-19=-50, 10-16=-20
Concentrated Loads (lb)
Vert: 13=-990(F)
Trapezoidal Loads (plf)
Vert: 19=-50-to-9=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 10-16=-20
Concentrated Loads (lb)
Vert: 13=-843(F)
Trapezoidal Loads (plf)
Vert: 1=-60-to-3=-55, 3=-55-to-19=-60, 19=-48-to-9=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-19=-20, 10-16=-40
Concentrated Loads (lb)
Vert: 13=-705(F)
Trapezoidal Loads (plf)
Vert: 19=-20-to-9=-35
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=12, 1-17=50, 9-10=18, 9-18=33
Concentrated Loads (lb)
Vert: 13=378(F)
Trapezoidal Loads (plf)
Vert: 19=16-to-9=1
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=-18, 1-17=-33, 9-10=-12, 9-18=-50
Concentrated Loads (lb)
Vert: 13=378(F)
Trapezoidal Loads (plf)
Vert: 19=16-to-9=1
- 8) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=24, 1-17=50, 9-10=6, 9-18=33
Concentrated Loads (lb)
Vert: 13=386(F)
Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18
- 9) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=-6, 1-17=-33, 9-10=-24, 9-18=-50
Concentrated Loads (lb)
Vert: 13=386(F)
Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T01	Flat Girder	4	3	I50215640

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:35 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93l1-yXVxiptgUQP_w4frfqG_KbnQ7S_3IKzcZxHp1uzlHNc

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=7, 1-17=-33, 9-10=15, 9-18=33
- Concentrated Loads (lb)
Vert: 13=378(F)
- Trapezoidal Loads (plf)
Vert: 19=16-to-9=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=-15, 1-17=-33, 9-10=-7, 9-18=33
- Concentrated Loads (lb)
Vert: 13=378(F)
- Trapezoidal Loads (plf)
Vert: 19=16-to-9=1
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=7, 1-17=-33, 9-10=15, 9-18=33
- Concentrated Loads (lb)
Vert: 13=378(F)
- Trapezoidal Loads (plf)
Vert: 19=16-to-9=1
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=-15, 1-17=-33, 9-10=-7, 9-18=33
- Concentrated Loads (lb)
Vert: 13=378(F)
- Trapezoidal Loads (plf)
Vert: 19=16-to-9=1
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=19, 1-17=-33, 9-10=4, 9-18=33
- Concentrated Loads (lb)
Vert: 13=386(F)
- Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=-4, 1-17=-33, 9-10=-19, 9-18=33
- Concentrated Loads (lb)
Vert: 13=386(F)
- Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18
- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 1-19=-20, 10-16=-20
- Concentrated Loads (lb)
Vert: 13=-493(F)
- Trapezoidal Loads (plf)
Vert: 19=-20-to-9=-35
- 17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=18, 1-17=37, 9-10=5, 9-18=25
- Concentrated Loads (lb)
Vert: 13=218(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51
- 18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=-5, 1-17=-25, 9-10=-18, 9-18=-37
- Concentrated Loads (lb)
Vert: 13=218(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=14, 1-17=-25, 9-10=3, 9-18=25
- Concentrated Loads (lb)
Vert: 13=218(F)

Continued on page 4.

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T01	Flat Girder	4	3	I50215640
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:35 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93l1-yXVxiptgUQP_w4frfqG_KbnQ7S_3IKzcZxHp1uzlHNc

LOAD CASE(S)

- Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=-3, 1-17=-25, 9-10=-14, 9-18=25
- Concentrated Loads (lb)
Vert: 13=218(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=18, 1-17=37, 9-10=5, 9-18=25
- Concentrated Loads (lb)
Vert: 13=218(F)
- Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=-5, 1-17=-25, 9-10=-18, 9-18=-37
- Concentrated Loads (lb)
Vert: 13=218(F)
- Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53
- 23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=14, 1-17=-25, 9-10=3, 9-18=25
- Concentrated Loads (lb)
Vert: 13=218(F)
- Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53
- 24) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=-3, 1-17=-25, 9-10=-14, 9-18=25
- Concentrated Loads (lb)
Vert: 13=218(F)
- Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53
- 25) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 3-19=-60, 10-16=-20
- Concentrated Loads (lb)
Vert: 13=-960(F)
- Trapezoidal Loads (plf)
Vert: 1=-75-to-3=-60, 19=-60-to-9=-75
- 26) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-12, 10-16=-12
Horz: 1-16=16, 1-17=16
- Concentrated Loads (lb)
Vert: 13=295(F)
- Trapezoidal Loads (plf)
Vert: 19=-12-to-9=-27
- 27) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-12, 10-16=-12
Horz: 9-10=-16, 9-18=-16
- Concentrated Loads (lb)
Vert: 13=295(F)
- Trapezoidal Loads (plf)
Vert: 19=-12-to-9=-27
- 28) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-19=-60, 10-16=-20
- Concentrated Loads (lb)
Vert: 13=-1155(F)
- Trapezoidal Loads (plf)
Vert: 19=-60-to-9=-75
- 29) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-19=-60, 10-16=-20

Continued on page 5

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T01	Flat Girder	4	3	I50215640

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:35 2022 Page 5
ID:6EjRszEEA1occ44RuFMRXLy93I1-yXVxiptgUQP_w4frfqG_KbnQ7S_3IKzcZxHp1uzlHNc

LOAD CASE(S)

- Concentrated Loads (lb)
Vert: 13=-1155(F)
- Trapezoidal Loads (plf)
Vert: 19=-60-to-9=-75
- 30) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-19=-50, 10-16=-20
- Concentrated Loads (lb)
Vert: 13=-990(F)
- Trapezoidal Loads (plf)
Vert: 19=-50-to-9=-65
- 31) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-19=-50, 10-16=-20
- Concentrated Loads (lb)
Vert: 13=-990(F)
- Trapezoidal Loads (plf)
Vert: 19=-50-to-9=-65
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=12, 1-17=50, 9-10=18, 9-18=33
- Concentrated Loads (lb)
Vert: 13=71(F)
- Trapezoidal Loads (plf)
Vert: 19=16-to-9=1
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=-18, 1-17=-33, 9-10=-12, 9-18=-50
- Concentrated Loads (lb)
Vert: 13=71(F)
- Trapezoidal Loads (plf)
Vert: 19=16-to-9=1
- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=24, 1-17=50, 9-10=6, 9-18=33
- Concentrated Loads (lb)
Vert: 13=79(F)
- Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18
- 35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=-6, 1-17=-33, 9-10=-24, 9-18=-50
- Concentrated Loads (lb)
Vert: 13=79(F)
- Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18
- 36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=7, 1-17=-33, 9-10=15, 9-18=33
- Concentrated Loads (lb)
Vert: 13=71(F)
- Trapezoidal Loads (plf)
Vert: 19=16-to-9=1
- 37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=-15, 1-17=-33, 9-10=-7, 9-18=33
- Concentrated Loads (lb)
Vert: 13=71(F)
- Trapezoidal Loads (plf)
Vert: 19=16-to-9=1
- 38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=7, 1-17=-33, 9-10=15, 9-18=33
- Concentrated Loads (lb)
Vert: 13=71(F)
- Trapezoidal Loads (plf)
Vert: 19=16-to-9=1
- 39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 6

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T01	Flat Girder	4	3	I50215640

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:35 2022 Page 6
ID:6EjRsZEEA1occ44RuFMRXLy93l1-yXVxiptgUQP_w4frfqG_KbnQ7S_3IKzcZxHp1uzlHNc

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 1-19=16, 10-16=-12
Horz: 1-16=-15, 1-17=-33, 9-10=-7, 9-18=33
- Concentrated Loads (lb)
Vert: 13=71(F)
- Trapezoidal Loads (plf)
Vert: 19=16-to-9=1
- 40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=19, 1-17=-33, 9-10=4, 9-18=33
- Concentrated Loads (lb)
Vert: 13=79(F)
- Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18
- 41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-3, 10-16=-20
Horz: 1-16=-4, 1-17=-33, 9-10=-19, 9-18=33
- Concentrated Loads (lb)
Vert: 13=79(F)
- Trapezoidal Loads (plf)
Vert: 19=-3-to-9=-18
- 42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=18, 1-17=37, 9-10=5, 9-18=25
- Concentrated Loads (lb)
Vert: 13=-110(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51
- 43) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=-5, 1-17=-25, 9-10=-18, 9-18=-37
- Concentrated Loads (lb)
Vert: 13=-110(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51
- 44) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=14, 1-17=-25, 9-10=3, 9-18=25
- Concentrated Loads (lb)
Vert: 13=-110(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51
- 45) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 10-16=-20
Horz: 1-16=-3, 1-17=-25, 9-10=-14, 9-18=25
- Concentrated Loads (lb)
Vert: 13=-110(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-3=-43, 3=-43-to-19=-47, 19=-36-to-9=-51
- 46) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=18, 1-17=37, 9-10=5, 9-18=25
- Concentrated Loads (lb)
Vert: 13=-150(F)
- Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53
- 47) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=-5, 1-17=-25, 9-10=-18, 9-18=-37
- Concentrated Loads (lb)
Vert: 13=-150(F)
- Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53
- 48) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 7

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T01	Flat Girder	4	3	I50215640

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:35 2022 Page 7
ID:6EjRszeEA1occ44RuFMRXLy93I1-yXVxiptgUQP_w4frfqG_KbnQ7S_3IKzcZxHp1uzlHNc

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=14, 1-17=-25, 9-10=3, 9-18=25
- Concentrated Loads (lb)
Vert: 13=-150(F)
- Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53
- 49) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-38, 10-16=-20
Horz: 1-16=-3, 1-17=-25, 9-10=-14, 9-18=25
- Concentrated Loads (lb)
Vert: 13=-150(F)
- Trapezoidal Loads (plf)
Vert: 19=-38-to-9=-53
- 50) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-12, 10-16=-12
Horz: 1-16=16, 1-17=16
- Concentrated Loads (lb)
Vert: 13=47(F)
- Trapezoidal Loads (plf)
Vert: 19=-12-to-9=-27
- 51) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-19=-12, 10-16=-12
Horz: 9-10=-16, 9-18=-16
- Concentrated Loads (lb)
Vert: 13=47(F)
- Trapezoidal Loads (plf)
Vert: 19=-12-to-9=-27

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215641
B212230-G01R	T02	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:37 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93l1-uvdh7Vvx02fh9OpEnFJSP0sf1GZEm7Qu0Fmw5nzlHNa

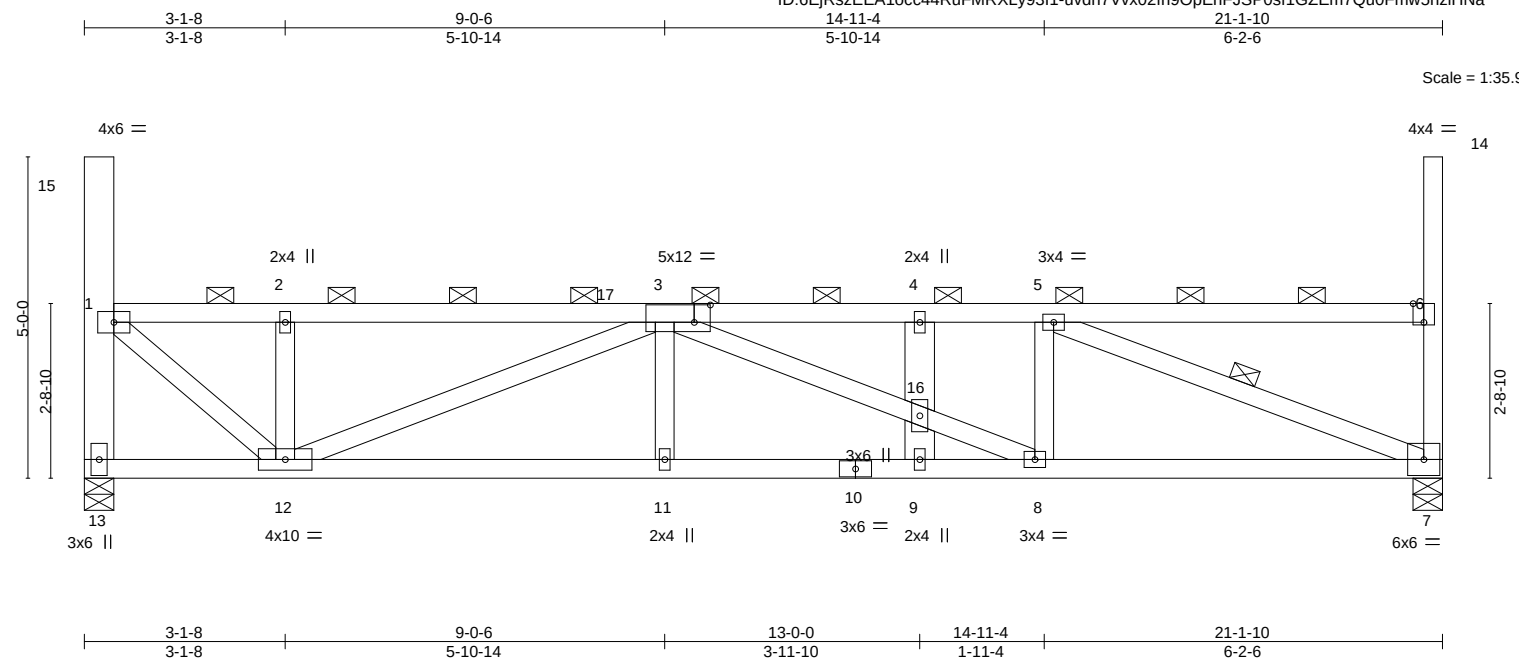


Plate Offsets (X, Y)-- [3:0-3-0,0-3-4], [6:0-2-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0		TC	0.52	in (loc)	l/defl	L/d	GRIP
Snow (Pf/Pg)	18.9/20.0	Plate Grip DOL	1.15	BC	0.58	Vert(LL)	0.11 9-11	>999	240
TCDL	10.0	Lumber DOL	1.15	WB	0.68	Vert(CT)	-0.18 9-11	>999	180
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-MS		Horz(CT)	-0.05 13	n/a	n/a
BCDL	10.0	Code IBC2018/TPI2014							
								Weight: 97 lb FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
13-15,4-16,9-16: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (4-1-14 max.): 6-14, 1-6, 1-15, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-1 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS.

(size) 7=0-5-8, 13=0-5-8
Max Horz 7=-276(LC 10)
Max Uplift 7=-26(LC 11), 13=-27(LC 10)
Max Grav 7=890(LC 2), 13=889(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-979/637, 2-3=-979/637, 3-4=-1626/891, 4-5=-1626/891, 5-6=-315/265,
1-13=-871/496
BOT CHORD 11-12=-1142/1878, 9-11=-1142/1878, 8-9=-1142/1878, 7-8=-1162/1626
WEBS 5-7=-1681/1023, 5-8=-100/321, 3-16=-271/356, 8-16=-280/366, 3-12=-972/720,
2-12=-344/263, 1-12=-721/1265

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- C-C wind load user defined.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 27 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



February 15,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T02	Flat	2	1	I50215641
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:37 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-uvdh7Vvx02fh9OpEnFJSP0sf1GZEm7Qu0Fmw5nzlHNa

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 4-17=-58, 7-13=-20
- Trapezoidal Loads (plf)
Vert: 1=-73-to-17=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-17=-50, 7-13=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-17=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-17=-48, 7-13=-20
- Trapezoidal Loads (plf)
Vert: 1=-63-to-17=-48, 4=-48-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 4-17=-20, 7-13=-40
- Trapezoidal Loads (plf)
Vert: 1=-35-to-17=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=58, 7-13=-12
Horz: 6-7=35, 6-14=56, 1-13=20, 1-15=92
- Trapezoidal Loads (plf)
Vert: 1=43-to-17=58, 4=58-to-6=43
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=58, 7-13=-12
Horz: 6-7=-20, 6-14=-92, 1-13=-35, 1-15=-56
- Trapezoidal Loads (plf)
Vert: 1=43-to-17=58, 4=58-to-6=43
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-32, 7-13=-20
Horz: 6-7=-32, 6-14=56, 1-13=-23, 1-15=36
- Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-32, 4=-32-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-32, 7-13=-20
Horz: 6-7=23, 6-14=-36, 1-13=32, 1-15=-56
- Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-32, 4=-32-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=18, 6-14=33, 1-13=12, 1-15=50
- Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=-12, 6-14=-50, 1-13=-18, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=6, 6-14=33, 1-13=24, 1-15=50
- Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=-24, 6-14=-50, 1-13=-6, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T02	Flat	2	1	I50215641
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:37 2022 Page 3
ID:6EjRszeEA1occ44RuFMRXLy93l1-uvdh7Vvx02fh9OpEnFJSP0sf1GZEm7Qu0Fmw5nzlHNa

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=15, 6-14=33, 1-13=7, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=-7, 6-14=33, 1-13=-15, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=15, 6-14=33, 1-13=7, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=-7, 6-14=33, 1-13=-15, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=4, 6-14=33, 1-13=19, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=-19, 6-14=33, 1-13=-4, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 4-17=-20, 7-13=-20
- Trapezoidal Loads (plf)
Vert: 1=-35-to-17=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=5, 6-14=25, 1-13=18, 1-15=37
- Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=-18, 6-14=-37, 1-13=-5, 1-15=-25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=3, 6-14=25, 1-13=14, 1-15=-25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=-14, 6-14=25, 1-13=-3, 1-15=-25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=5, 6-14=25, 1-13=18, 1-15=37
- Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=-18, 6-14=-37, 1-13=-5, 1-15=-25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T02	Flat	2	1	I50215641
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:37 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93l1-uvdh7Vvx02fh9OpEnFJSP0sf1GZEm7Qu0Fmw5nzlHNa

LOAD CASE(S)

- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=3, 6-14=25, 1-13=14, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=-14, 6-14=25, 1-13=-3, 1-15=-25
Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-28, 7-13=-12
Horz: 6-7=-16, 6-14=33, 1-13=-16, 1-15=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-17=-28, 4=-28-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=4, 7-13=-12
Horz: 6-7=16, 6-14=33, 1-13=16, 1-15=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-17=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-50, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-17=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-50, 7-13=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-17=-50, 4=-50-to-6=-65

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T03	Flat	2	1	I50215642
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:38 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-N6B3LrvZnLnYnYOQKzqhxEOr3gwbVam2FvVUeDzIHNZ

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 4-17=-58, 7-13=-20
 - Trapezoidal Loads (plf)
Vert: 1=-73-to-17=-58, 4=-58-to-6=-73
 - 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
 - Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75
 - 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
Vert: 4-17=-50, 7-13=-20
 - Trapezoidal Loads (plf)
Vert: 1=-65-to-17=-50, 4=-50-to-6=-65
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
Vert: 4-17=-48, 7-13=-20
 - Trapezoidal Loads (plf)
Vert: 1=-63-to-17=-48, 4=-48-to-6=-63
 - 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
Vert: 4-17=-20, 7-13=-40
 - Trapezoidal Loads (plf)
Vert: 1=-35-to-17=-20, 4=-20-to-6=-35
 - 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 4-17=58, 7-13=-12
Horz: 6-7=35, 6-14=56, 1-13=20, 1-15=92
 - Trapezoidal Loads (plf)
Vert: 1=43-to-17=58, 4=58-to-6=43
 - 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 4-17=58, 7-13=-12
Horz: 6-7=-20, 6-14=-92, 1-13=-35, 1-15=-56
 - Trapezoidal Loads (plf)
Vert: 1=43-to-17=58, 4=58-to-6=43
 - 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 4-17=-32, 7-13=-20
Horz: 6-7=-32, 6-14=56, 1-13=-23, 1-15=36
 - Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-32, 4=-32-to-6=-47
 - 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 4-17=-32, 7-13=-20
Horz: 6-7=23, 6-14=-36, 1-13=32, 1-15=-56
 - Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-32, 4=-32-to-6=-47
 - 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=18, 6-14=33, 1-13=12, 1-15=50
 - Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1
 - 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=-12, 6-14=-50, 1-13=-18, 1-15=-33
 - Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1
 - 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=6, 6-14=33, 1-13=24, 1-15=50
 - Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18
 - 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=-24, 6-14=-50, 1-13=-6, 1-15=-33
 - Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18
 - 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T03	Flat	2	1	I50215642
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:38 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93I1-N6B3LrvZnLnYnYOQKzqhxEOr3gwbVam2FvVUeDzIHNZ

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=15, 6-14=33, 1-13=7, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=-7, 6-14=33, 1-13=-15, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=15, 6-14=33, 1-13=7, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=16, 7-13=-12
Horz: 6-7=-7, 6-14=33, 1-13=-15, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=1-to-17=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=4, 6-14=33, 1-13=19, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-3, 7-13=-20
Horz: 6-7=-19, 6-14=33, 1-13=-4, 1-15=-33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-17=-3, 4=-3-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 4-17=-20, 7-13=-20
- Trapezoidal Loads (plf)
Vert: 1=-35-to-17=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=5, 6-14=25, 1-13=18, 1-15=37
- Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=-18, 6-14=-37, 1-13=-5, 1-15=-25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=3, 6-14=25, 1-13=14, 1-15=-25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=-14, 6-14=25, 1-13=-3, 1-15=-25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-17=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=5, 6-14=25, 1-13=18, 1-15=37
- Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-17=-38, 7-13=-20
Horz: 6-7=-18, 6-14=-37, 1-13=-5, 1-15=-25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-17=-38, 4=-38-to-6=-53

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T03	Flat	2	1	I50215642
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:38 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93I1-N6B3LrvZnLnYnYOQKzqhxEOr3gwbVam2FvVUeDzlHNZ

LOAD CASE(S) Standard

- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-17=-38, 7-13=-20
- Horz: 6-7=3, 6-14=25, 1-13=14, 1-15=-25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-17=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-17=-38, 7-13=-20
- Horz: 6-7=-14, 6-14=25, 1-13=-3, 1-15=-25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-17=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-17=-60, 7-13=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-17=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-17=-28, 7-13=-12
- Horz: 6-7=-16, 6-14=33, 1-13=-16, 1-15=33
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-17=-28, 4=-28-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-17=4, 7-13=-12
- Horz: 6-7=16, 6-14=33, 1-13=16, 1-15=33
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-17=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-17=-60, 7-13=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-17=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-17=-60, 7-13=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-17=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-17=-50, 7-13=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-17=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-17=-50, 7-13=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-17=-50, 4=-50-to-6=-65

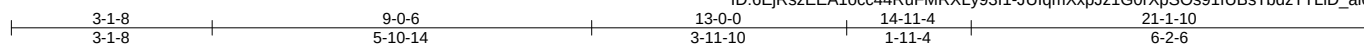
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215643
B212230-G01R	T04	Flat	2	1	Job Reference (optional)	

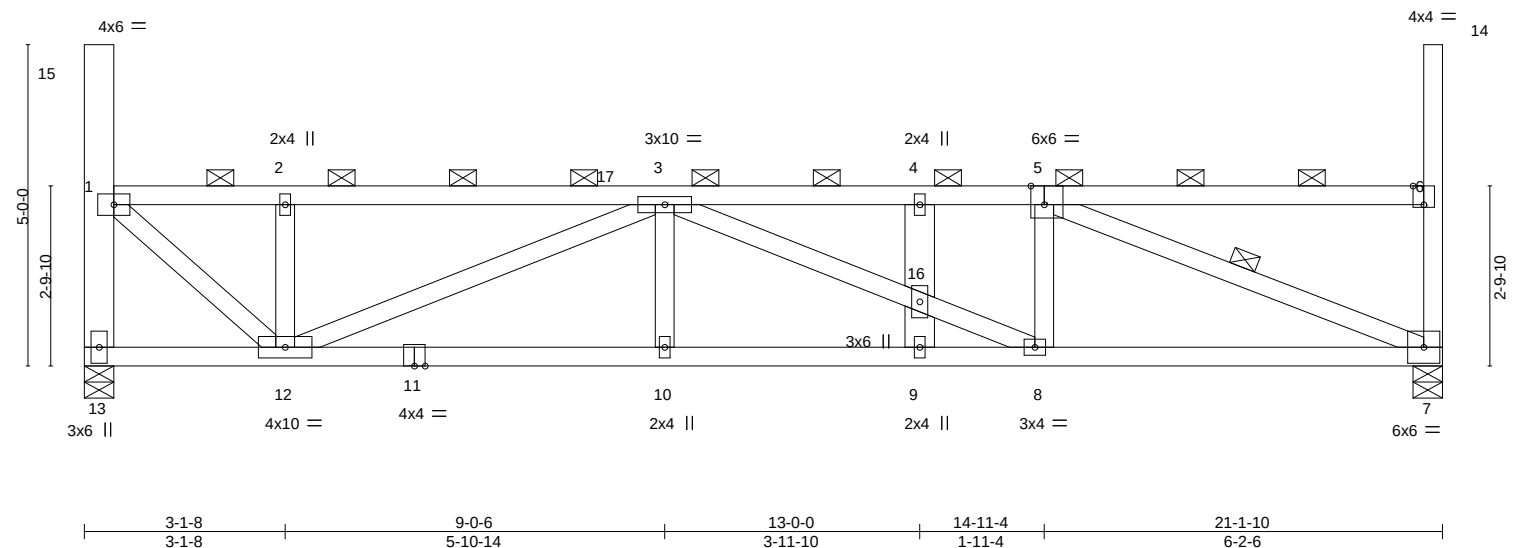
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:40 2022 Page 1

ID:6EjRsZEEA1occ44RuFMRXly9311-JU1qmXxpJz1G0rXpSOs91fUBsTbdzTTLiD_ai6zIHnX



Scale = 1:35.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.60	Vert(LL) 0.11 9-10 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.73	Vert(CT) -0.19 9-10 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) -0.05 13 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 97 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (4-0-8 max.): 6-14, 1-6, 1-15, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 5-7-5 oc bracing.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt 5-7
13-15,9-16,4-16: 2x6 SPF 1650F 1.5E	

REACTIONS. (size) 7=0-5-8, 13=0-5-8
 Max Horz 7=-271(LC 10)
 Max Uplift 7=-42(LC 11), 13=-58(LC 10)
 Max Grav 7=933(LC 29), 13=916(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-975/638, 2-3=-975/638, 3-4=-1687/818, 4-5=-1687/818, 5-6=-290/263, 1-13=-896/528
 BOT CHORD 10-12=-1071/1918, 9-10=-1071/1918, 8-9=-1071/1918, 7-8=-1083/1687
 WEBS 5-7=-1759/935, 5-8=-61/358, 3-16=-254/351, 8-16=-271/354, 3-12=-1025/631, 2-12=-341/304, 1-12=-735/1277

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - C-C wind load user defined.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 7 and 58 lb uplift at joint 13.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down at 13-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

Continued on page 2



February 15, 2022

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T04	Flat	2	1	I50215643
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:40 2022 Page 2
ID:6EjRsEEA1occ44RuFMRXLy93I1-JUfqmXxpJz1G0rXpSOs91fUBsTbdzTTLiD_ai6zIHnX

LOAD CASE(S)

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-58, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)
Trapezoidal Loads (plf)
Vert: 1=-73-to-17=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-48, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)
Trapezoidal Loads (plf)
Vert: 1=-60-to-17=-48, 4=-48-to-6=-60
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 7-13=-40
Concentrated Loads (lb)
Vert: 9=-70(B)
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=58, 7-13=-12
Horz: 6-7=35, 6-14=56, 1-13=20, 1-15=92
Concentrated Loads (lb)
Vert: 9=-70(B)
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=58, 7-13=-12
Horz: 6-7=-20, 6-14=-92, 1-13=-35, 1-15=-56
Concentrated Loads (lb)
Vert: 9=-70(B)
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-32, 7-13=-20
Horz: 6-7=-32, 6-14=56, 1-13=-23, 1-15=36
Concentrated Loads (lb)
Vert: 9=-70(B)
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-32, 7-13=-20
Horz: 6-7=23, 6-14=-36, 1-13=32, 1-15=-56
Concentrated Loads (lb)
Vert: 9=-70(B)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=16, 7-13=-12
Horz: 6-7=18, 6-14=33, 1-13=12, 1-15=50
Concentrated Loads (lb)
Vert: 9=-70(B)
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=16, 7-13=-12
Horz: 6-7=-12, 6-14=-50, 1-13=-18, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-3, 7-13=-20
Horz: 6-7=6, 6-14=33, 1-13=24, 1-15=50
Concentrated Loads (lb)
Vert: 9=-70(B)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-3, 7-13=-20
Horz: 6-7=-24, 6-14=-50, 1-13=-6, 1-15=-33

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T04	Flat	2	1	I50215643
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:40 2022 Page 3
ID:6EjRsZEEA1occ44RuFMRXly93I1-JUfqmXxpJz1G0rXpSOs91fUBsTbdzTTLiD_ai6ziHNX

LOAD CASE(S)

- Concentrated Loads (lb)
Vert: 9=-70(B)
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=16, 7-13=-12
Horz: 6-7=15, 6-14=33, 1-13=7, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=16, 7-13=-12
Horz: 6-7=-7, 6-14=33, 1-13=-15, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=16, 7-13=-12
Horz: 6-7=15, 6-14=33, 1-13=7, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=16, 7-13=-12
Horz: 6-7=-7, 6-14=33, 1-13=-15, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-3, 7-13=-20
Horz: 6-7=4, 6-14=33, 1-13=19, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-3, 7-13=-20
Horz: 6-7=-19, 6-14=33, 1-13=-4, 1-15=-33
Concentrated Loads (lb)
Vert: 9=-70(B)
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-6=-20, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=5, 6-14=25, 1-13=18, 1-15=37
Concentrated Loads (lb)
Vert: 9=-70(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=-18, 6-14=-37, 1-13=-5, 1-15=-25
Concentrated Loads (lb)
Vert: 9=-70(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=3, 6-14=25, 1-13=14, 1-15=-25
Concentrated Loads (lb)
Vert: 9=-70(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-17=-36, 7-13=-20
Horz: 6-7=-14, 6-14=25, 1-13=-3, 1-15=-25
Concentrated Loads (lb)
Vert: 9=-70(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 4=-36-to-6=-47

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T04	Flat	2	1	I50215643
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:40 2022 Page 4
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LOAD CASE(S)

- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-38, 7-13=-20
Horz: 6-7=5, 6-14=25, 1-13=18, 1-15=37
Concentrated Loads (lb)
Vert: 9=-70(B)
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-38, 7-13=-20
Horz: 6-7=-18, 6-14=-37, 1-13=-5, 1-15=-25
Concentrated Loads (lb)
Vert: 9=-70(B)
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-38, 7-13=-20
Horz: 6-7=3, 6-14=25, 1-13=14, 1-15=-25
Concentrated Loads (lb)
Vert: 9=-70(B)
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-38, 7-13=-20
Horz: 6-7=-14, 6-14=25, 1-13=-3, 1-15=-25
Concentrated Loads (lb)
Vert: 9=-70(B)
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-17=-60, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-28, 7-13=-12
Horz: 6-7=-16, 6-14=33, 1-13=-16, 1-15=33
Concentrated Loads (lb)
Vert: 9=-70(B)
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=4, 7-13=-12
Horz: 6-7=16, 6-14=33, 1-13=16, 1-15=33
Concentrated Loads (lb)
Vert: 9=-70(B)
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 7-13=-20
Concentrated Loads (lb)
Vert: 9=-70(B)

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215644
B212230-G01R	T05	Flat Girder	2	1	Job Reference (optional)	

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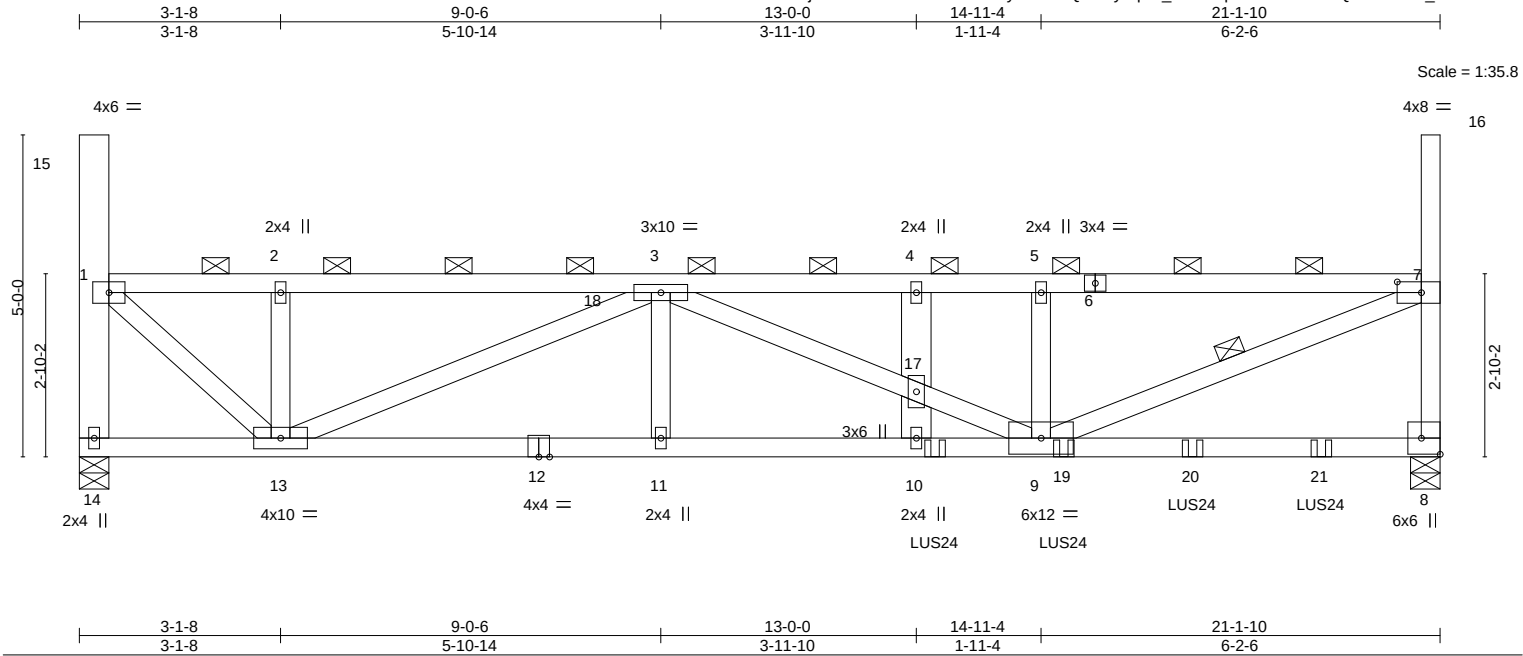


Plate Offsets (X,Y)-- [7:0-4-8,0-2-0], [8:Edge,0-3-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) I/defl L/d				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.29	8-9	>848	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.31	8-9	>811	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							Weight: 97 lb	FT = 20%
BSDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-4-9 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 5-8-12 oc bracing.
	8-12: 2x4 SPF 2100F 1.8E	WEBS	1 Row at midpt 7-9
WEBS	2x4 SPF No.2 *Except*		
	14-15,10-17,4-17: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 14=0-5-8, 8=0-5-8
 Max Horz 14=-269(LC 6)
 Max Uplift 14=-323(LC 6), 8=-932(LC 7)
 Max Grav 14=968(LC 25), 8=1420(LC 42)

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

TOP CHORD 1-14=-946/330, 1-2=-1037/446, 2-3=-1037/446, 3-4=-2473/1552, 4-5=-2473/1552,
5-7=-2473/1552, 7-8=-1122/666

BOT CHORD 13-14=-293/304, 11-13=-1062/2229, 10-11=-1062/2229, 9-10=-1062/2229

WEBS 1-13=-475/1340, 2-13=-340/93, 3-13=-1385/750, 3-17=-765/726, 9-17=-774/721,
5-9=-402/104, 7-9=-1550/2555

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) T CLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 14 and 932 lb uplift at joint 8.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 13-3-8 from the left end to 19-3-8 to connect truss(es) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down at 13-0-0 on top

Continued on Back Design/selection of such connection device(s) is the responsibility of others.



February 15, 2022

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

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



Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T05	Flat Girder	2	1	I50215644
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:42 2022 Page 2
ID:6EjRszEEA1occ44RuFMRLy93l1-FtQaADy3qaH_G9hBZpud64ZVXHQPQl0eAXThn_zlHNV

NOTES-
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-58, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-56(F) 4=-70(F) 19=-56(F) 20=-56(F) 21=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-73-to-18=-58, 4=-58-to-7=-73
 - 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-56(F) 4=-70(F) 19=-56(F) 20=-56(F) 21=-56(F)
 - 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-47(F) 4=-70(F) 19=-47(F) 20=-47(F) 21=-47(F)
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-48, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-47(F) 4=-70(F) 19=-47(F) 20=-47(F) 21=-47(F)
Trapezoidal Loads (plf)
Vert: 1=-60-to-18=-48, 4=-48-to-7=-60
 - 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-20, 8-14=-40
Concentrated Loads (lb)
Vert: 10=-18(F) 4=-70(F) 19=-18(F) 20=-18(F) 21=-18(F)
 - 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=12, 1-15=50, 7-8=18, 7-16=33
Concentrated Loads (lb)
Vert: 10=289(F) 4=-70(F) 19=289(F) 20=289(F) 21=289(F)
 - 7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=-18, 1-15=-33, 7-8=-12, 7-16=-50
Concentrated Loads (lb)
Vert: 10=289(F) 4=-70(F) 19=289(F) 20=289(F) 21=289(F)
 - 8) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=24, 1-15=50, 7-8=6, 7-16=33
Concentrated Loads (lb)
Vert: 10=297(F) 4=-70(F) 19=297(F) 20=297(F) 21=297(F)
 - 9) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=-6, 1-15=-33, 7-8=-24, 7-16=-50
Concentrated Loads (lb)
Vert: 10=297(F) 4=-70(F) 19=297(F) 20=297(F) 21=297(F)
 - 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=7, 1-15=-33, 7-8=15, 7-16=33
Concentrated Loads (lb)
Vert: 10=289(F) 4=-70(F) 19=289(F) 20=289(F) 21=289(F)
 - 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=-15, 1-15=-33, 7-8=-7, 7-16=33
Concentrated Loads (lb)
Vert: 10=289(F) 4=-70(F) 19=289(F) 20=289(F) 21=289(F)
 - 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=7, 1-15=-33, 7-8=15, 7-16=33
Concentrated Loads (lb)
Vert: 10=289(F) 4=-70(F) 19=289(F) 20=289(F) 21=289(F)
 - 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T05	Flat Girder	2	1	I50215644
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:42 2022 Page 3
ID:6EjRszeEA1occ44RuFMRXly9311-FtQaADy3qaH_G9hBZpud64ZVXHQPQIOeAXThn_zlHNV

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=-15, 1-15=-33, 7-8=-7, 7-16=33
- Concentrated Loads (lb)
Vert: 10=289(F) 4=-70(F) 19=289(F) 20=289(F) 21=289(F)
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=19, 1-15=-33, 7-8=4, 7-16=33
- Concentrated Loads (lb)
Vert: 10=297(F) 4=-70(F) 19=297(F) 20=297(F) 21=297(F)
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=-4, 1-15=-33, 7-8=-19, 7-16=33
- Concentrated Loads (lb)
Vert: 10=297(F) 4=-70(F) 19=297(F) 20=297(F) 21=297(F)
- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 1-7=-20, 8-14=-20
- Concentrated Loads (lb)
Vert: 10=-18(F) 4=-70(F) 19=-18(F) 20=-18(F) 21=-18(F)
- 17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
- Concentrated Loads (lb)
Vert: 10=207(F) 4=-70(F) 19=207(F) 20=207(F) 21=207(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
- Concentrated Loads (lb)
Vert: 10=207(F) 4=-70(F) 19=207(F) 20=207(F) 21=207(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
- Concentrated Loads (lb)
Vert: 10=207(F) 4=-70(F) 19=207(F) 20=207(F) 21=207(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
- Concentrated Loads (lb)
Vert: 10=207(F) 4=-70(F) 19=207(F) 20=207(F) 21=207(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
- Concentrated Loads (lb)
Vert: 10=201(F) 4=-70(F) 19=201(F) 20=201(F) 21=201(F)
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
- Concentrated Loads (lb)
Vert: 10=201(F) 4=-70(F) 19=201(F) 20=201(F) 21=201(F)
- 23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
- Concentrated Loads (lb)
Vert: 10=201(F) 4=-70(F) 19=201(F) 20=201(F) 21=201(F)
- 24) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T05	Flat Girder	2	1	I50215644
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:42 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXly93l1-FtQaADy3qaH_G9hBZpud64ZVXHQPQl0eAXThn_zlHNV

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
- Concentrated Loads (lb)
Vert: 10=201(F) 4=-70(F) 19=201(F) 20=201(F) 21=201(F)
- 25) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
- Concentrated Loads (lb)
Vert: 10=-56(F) 4=-70(F) 19=-56(F) 20=-56(F) 21=-56(F)
- Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75
- 26) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-12, 8-14=-12
Horz: 1-14=16, 1-15=16
- Concentrated Loads (lb)
Vert: 10=283(F) 4=-70(F) 19=283(F) 20=283(F) 21=283(F)
- 27) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-12, 8-14=-12
Horz: 7-8=-16, 7-16=-16
- Concentrated Loads (lb)
Vert: 10=283(F) 4=-70(F) 19=283(F) 20=283(F) 21=283(F)
- 28) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-7=-60, 8-14=-20
- Concentrated Loads (lb)
Vert: 10=-56(F) 4=-70(F) 19=-56(F) 20=-56(F) 21=-56(F)
- 29) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-7=-60, 8-14=-20
- Concentrated Loads (lb)
Vert: 10=-56(F) 4=-70(F) 19=-56(F) 20=-56(F) 21=-56(F)
- 30) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-7=-50, 8-14=-20
- Concentrated Loads (lb)
Vert: 10=-47(F) 4=-70(F) 19=-47(F) 20=-47(F) 21=-47(F)
- 31) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-7=-50, 8-14=-20
- Concentrated Loads (lb)
Vert: 10=-47(F) 4=-70(F) 19=-47(F) 20=-47(F) 21=-47(F)
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=12, 1-15=50, 7-8=18, 7-16=33
- Concentrated Loads (lb)
Vert: 10=-295(F) 4=-70(F) 19=-295(F) 20=-295(F) 21=-295(F)
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=-18, 1-15=-33, 7-8=-12, 7-16=-50
- Concentrated Loads (lb)
Vert: 10=-295(F) 4=-70(F) 19=-295(F) 20=-295(F) 21=-295(F)
- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=24, 1-15=50, 7-8=6, 7-16=33
- Concentrated Loads (lb)
Vert: 10=-287(F) 4=-70(F) 19=-287(F) 20=-287(F) 21=-287(F)
- 35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=-6, 1-15=-33, 7-8=-24, 7-16=-50
- Concentrated Loads (lb)
Vert: 10=-287(F) 4=-70(F) 19=-287(F) 20=-287(F) 21=-287(F)
- 36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=7, 1-15=-33, 7-8=15, 7-16=33
- Concentrated Loads (lb)
Vert: 10=-295(F) 4=-70(F) 19=-295(F) 20=-295(F) 21=-295(F)
- 37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 5

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T05	Flat Girder	2	1	I50215644
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:42 2022 Page 5
ID:6EjRsZEEA1occ44RuFMRXLy93l1-FtQaADy3qaH_G9hBZpud64ZVXHEPQl0eAXThn_zlHNV

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=-15, 1-15=-33, 7-8=-7, 7-16=33
- Concentrated Loads (lb)
Vert: 10=-295(F) 4=-70(F) 19=-295(F) 20=-295(F) 21=-295(F)
- 38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=7, 1-15=-33, 7-8=15, 7-16=33
- Concentrated Loads (lb)
Vert: 10=-295(F) 4=-70(F) 19=-295(F) 20=-295(F) 21=-295(F)
- 39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=16, 8-14=-12
Horz: 1-14=-15, 1-15=-33, 7-8=-7, 7-16=33
- Concentrated Loads (lb)
Vert: 10=-295(F) 4=-70(F) 19=-295(F) 20=-295(F) 21=-295(F)
- 40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=19, 1-15=-33, 7-8=4, 7-16=33
- Concentrated Loads (lb)
Vert: 10=-287(F) 4=-70(F) 19=-287(F) 20=-287(F) 21=-287(F)
- 41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-3, 8-14=-20
Horz: 1-14=-4, 1-15=-33, 7-8=-19, 7-16=33
- Concentrated Loads (lb)
Vert: 10=-287(F) 4=-70(F) 19=-287(F) 20=-287(F) 21=-287(F)
- 42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
- Concentrated Loads (lb)
Vert: 10=-235(F) 4=-70(F) 19=-235(F) 20=-235(F) 21=-235(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 43) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=37
- Concentrated Loads (lb)
Vert: 10=-235(F) 4=-70(F) 19=-235(F) 20=-235(F) 21=-235(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 44) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
- Concentrated Loads (lb)
Vert: 10=-235(F) 4=-70(F) 19=-235(F) 20=-235(F) 21=-235(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 45) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
- Concentrated Loads (lb)
Vert: 10=-235(F) 4=-70(F) 19=-235(F) 20=-235(F) 21=-235(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 46) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
- Concentrated Loads (lb)
Vert: 10=-241(F) 4=-70(F) 19=-241(F) 20=-241(F) 21=-241(F)
- 47) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-7=-38, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=37
- Concentrated Loads (lb)
Vert: 10=-241(F) 4=-70(F) 19=-241(F) 20=-241(F) 21=-241(F)

Continued on page 6

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T05	Flat Girder	2	1	I50215644
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

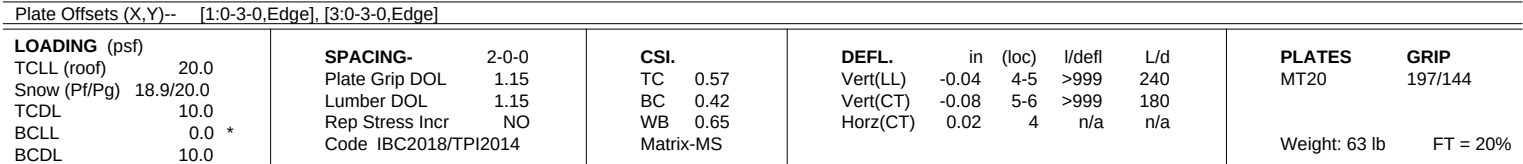
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:42 2022 Page 6
ID:6EjRszEEA1occ44RuFMRLy93I1-FtQaADy3qaH_G9hBZpud64ZVXHEPQIOeAXThn_zlHNV

- LOAD CASE(S)** Standard
- 48) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-7=-38, 8-14=-20
- Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
- Concentrated Loads (lb)
- Vert: 10=-241(F) 4=-70(F) 19=-241(F) 20=-241(F) 21=-241(F)
- 49) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-7=-38, 8-14=-20
- Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
- Concentrated Loads (lb)
- Vert: 10=-241(F) 4=-70(F) 19=-241(F) 20=-241(F) 21=-241(F)
- 50) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-7=-12, 8-14=-12
- Horz: 1-14=16, 1-15=16
- Concentrated Loads (lb)
- Vert: 10=-290(F) 4=-70(F) 19=-290(F) 20=-290(F) 21=-290(F)
- 51) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-7=-12, 8-14=-12
- Horz: 7-8=-16, 7-16=-16
- Concentrated Loads (lb)
- Vert: 10=-290(F) 4=-70(F) 19=-290(F) 20=-290(F) 21=-290(F)

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215645
B212230-G01R	T06	Flat Structural Gable	2	1	Job Reference (optional)	

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BRACING-	
TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-6-10 oc bracing.

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

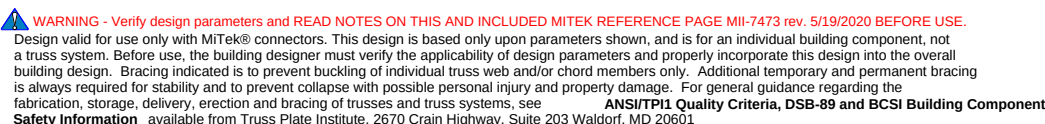
TOP CHORD	1-2=-332/286, 2-3=-331/285
BOT CHORD	5-6=-792/819, 4-5=-792/819
WEBS	2-6=-816/891, 2-5=0/284, 2-4=-815/886

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 6 and 91 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20



Continued on page 2



Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T06	Flat Structural Gable	2	1	I50215645
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:45 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-fS6ipE?y7VfZ7dQmFxSKkiB1EULddkr4sViLNJziHNS

- LOAD CASE(S)** Standard Except:
- Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-64, 9=-64-to-10=-63, 10=-63-to-3=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
Vert: 4-6=-20
 - Trapezoidal Loads (plf)
Vert: 1=-60-to-9=-53, 9=-64-to-10=-55, 10=-55-to-3=-48
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
 - Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-51-to-10=-43, 10=-43-to-3=-36
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
 - Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-51-to-10=-43, 10=-43-to-3=-36
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
 - Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-51-to-10=-43, 10=-43-to-3=-36
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
 - Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-51-to-10=-43, 10=-43-to-3=-36
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
Vert: 4-6=-20
 - Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-66, 9=-66-to-10=-66, 10=-66-to-3=-75

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T07	Flat	2	1	I50215646
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

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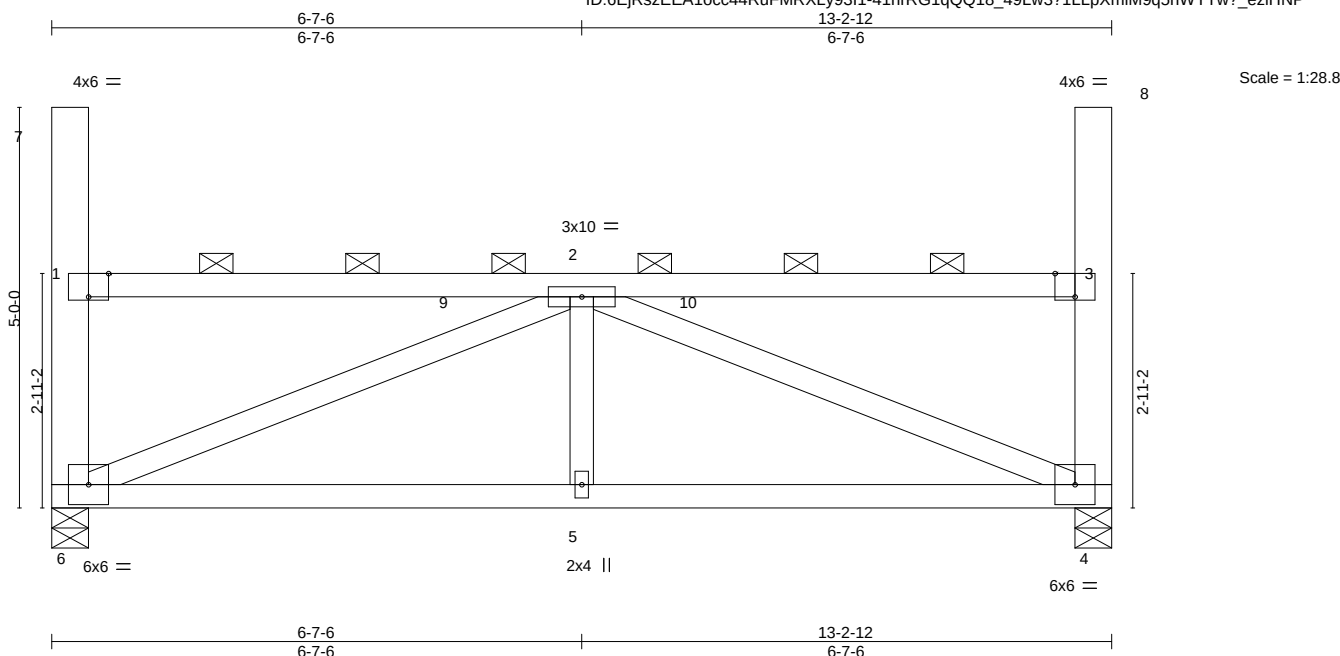


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [3:0-3-0,Edge]															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL		1.15		TC	0.56	Vert(LL)	-0.04	4-5	>999	240	MT20	197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL		1.15		BC	0.43	Vert(CT)	-0.08	5-6	>999	180			
TCDL	10.0	Rep Stress Incr		NO		WB	0.65	Horz(CT)	0.02	4	n/a	n/a			
BCLL	0.0 *	Code IBC2018/TPI2014				Matrix-MS							Weight: 63 lb	FT = 20%	
BCDL	10.0														

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 6-7,4-8: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-11-0 oc bracing.

REACTIONS.

(size) 6=0-5-8, 4=0-5-8
 Max Horz 6=-265(LC 12)
 Max Uplift 6=-32(LC 10), 4=-31(LC 11)
 Max Grav 6=570(LC 2), 4=570(LC 2)

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

TOP CHORD 1-2=-331/273, 2-3=-330/272
 BOT CHORD 5-6=-712/807, 4-5=-712/807
 WEBS 2-6=-805/808, 2-5=0/283, 2-4=-805/803

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- C-C wind load user defined.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 6 and 31 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-6=-20



February 15,2022

Continued on page 2

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

MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T07	Flat	2	1	I50215646
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:48 2022 Page 2
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LOAD CASE(S)

- Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-64, 9=-64-to-10=-63, 10=-63-to-3=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-66, 9=-66-to-10=-66, 10=-66-to-3=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-9=-56, 9=-56-to-10=-56, 10=-56-to-3=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-9=-54, 9=-54-to-10=-54, 10=-54-to-3=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-6=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-9=-26, 9=-26-to-10=-26, 10=-26-to-3=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=22, 1-7=108, 3-4=37, 3-8=61
Trapezoidal Loads (plf)
Vert: 1=57-to-9=66, 9=66-to-10=66, 10=66-to-3=57
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=-37, 1-7=-61, 3-4=-22, 3-8=-108
Trapezoidal Loads (plf)
Vert: 1=57-to-9=66, 9=66-to-10=66, 10=66-to-3=57
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-26, 1-7=40, 3-4=-34, 3-8=61
Trapezoidal Loads (plf)
Vert: 1=-48-to-9=-39, 9=-39-to-10=-39, 10=-39-to-3=-48
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=34, 1-7=-61, 3-4=26, 3-8=-40
Trapezoidal Loads (plf)
Vert: 1=-48-to-9=-39, 9=-39-to-10=-39, 10=-39-to-3=-48
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=12, 1-7=50, 3-4=18, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 9=11-to-10=11, 10=11-to-3=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=-18, 1-7=-33, 3-4=-12, 3-8=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 9=11-to-10=11, 10=11-to-3=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=24, 1-7=50, 3-4=6, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-9, 9=-9-to-10=-9, 10=-9-to-3=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-6, 1-7=-33, 3-4=-24, 3-8=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-9, 9=-9-to-10=-9, 10=-9-to-3=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 9=11-to-10=11, 10=11-to-3=1

Continued on page 3

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


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T07	Flat	2	1	I50215646
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:48 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93l1-41nrRG1qQQ18_49Lw3?1LLpXmiM9q5hWYTw?_eziHNP

LOAD CASE(S)

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 9=11-to-10=11, 10=11-to-3=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 9=11-to-10=11, 10=11-to-3=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 9=11-to-10=11, 10=11-to-3=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=19, 1-7=-33, 3-4=4, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-9, 9=-9-to-10=-9, 10=-9-to-3=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-4, 1-7=-33, 3-4=-19, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-9, 9=-9-to-10=-9, 10=-9-to-3=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-9=-26, 9=-26-to-10=-26, 10=-26-to-3=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-42, 9=-42-to-10=-41, 10=-41-to-3=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-42, 9=-42-to-10=-41, 10=-41-to-3=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-42, 9=-42-to-10=-41, 10=-41-to-3=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-42, 9=-42-to-10=-41, 10=-41-to-3=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-43, 9=-43-to-10=-43, 10=-43-to-3=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-43, 9=-43-to-10=-43, 10=-43-to-3=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T07	Flat	2	1	I50215646
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

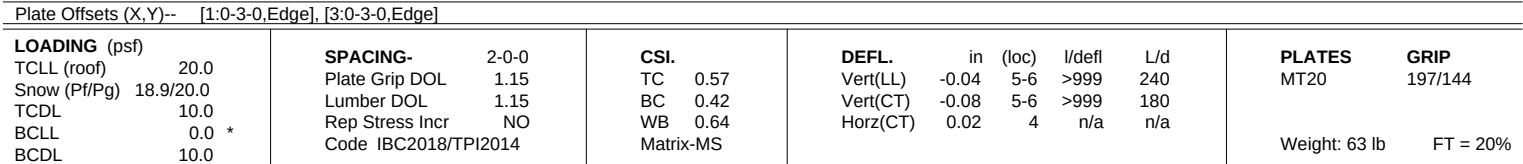
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:48 2022 Page 4
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LOAD CASE(S)

- Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-43, 9=-43-to-10=-43, 10=-43-to-3=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-43, 9=-43-to-10=-43, 10=-43-to-3=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-66, 9=-66-to-10=-66, 10=-66-to-3=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=-16, 1-7=33, 3-4=-16, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-9=-34, 9=-34-to-10=-34, 10=-34-to-3=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-12
Horz: 1-6=16, 1-7=33, 3-4=16, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-9=-1, 9=-1-to-10=-1, 10=-1-to-3=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-66, 9=-66-to-10=-66, 10=-66-to-3=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-66, 9=-66-to-10=-66, 10=-66-to-3=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-9=-56, 9=-56-to-10=-56, 10=-56-to-3=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-9=-56, 9=-56-to-10=-56, 10=-56-to-3=-65

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215647
B212230-G01R	T08	Flat	2	1	Job Reference (optional)	

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:49 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy931I-YDLDfc2SBkA_cEjXUnWGuYmIF5icZY0fn7gZW4zIHNO



BRACING-	
TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-7-11 oc bracing.

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

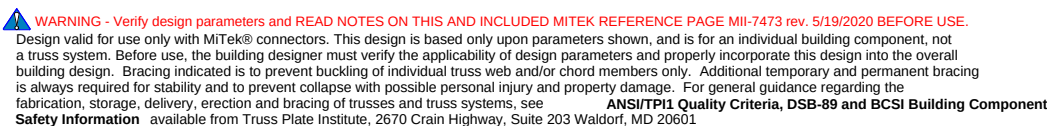
TOP CHORD	1-2=-315/275, 2-3=-314/274
BOT CHORD	5-6=-773/794, 4-5=-773/794
WEBS	2-6=-795/864, 2-5=0/284, 2-4=-795/859

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 6 and 90 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20



Continued on page 2



Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T08	Flat	2	1	I50215647
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:50 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-0Pvbsy34y1rDOIk1U2VRmut?V2rl?Gp?nP63XzIHNN

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-64, 9=-64-to-10=-63, 10=-63-to-3=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-6=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-9=-53, 9=-53-to-10=-53, 10=-53-to-3=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-40-to-10=-40, 10=-40-to-3=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-40-to-10=-40, 10=-40-to-3=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-40-to-10=-40, 10=-40-to-3=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-40, 9=-40-to-10=-40, 10=-40-to-3=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-6=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-66, 9=-66-to-10=-66, 10=-66-to-3=-75

Building 1

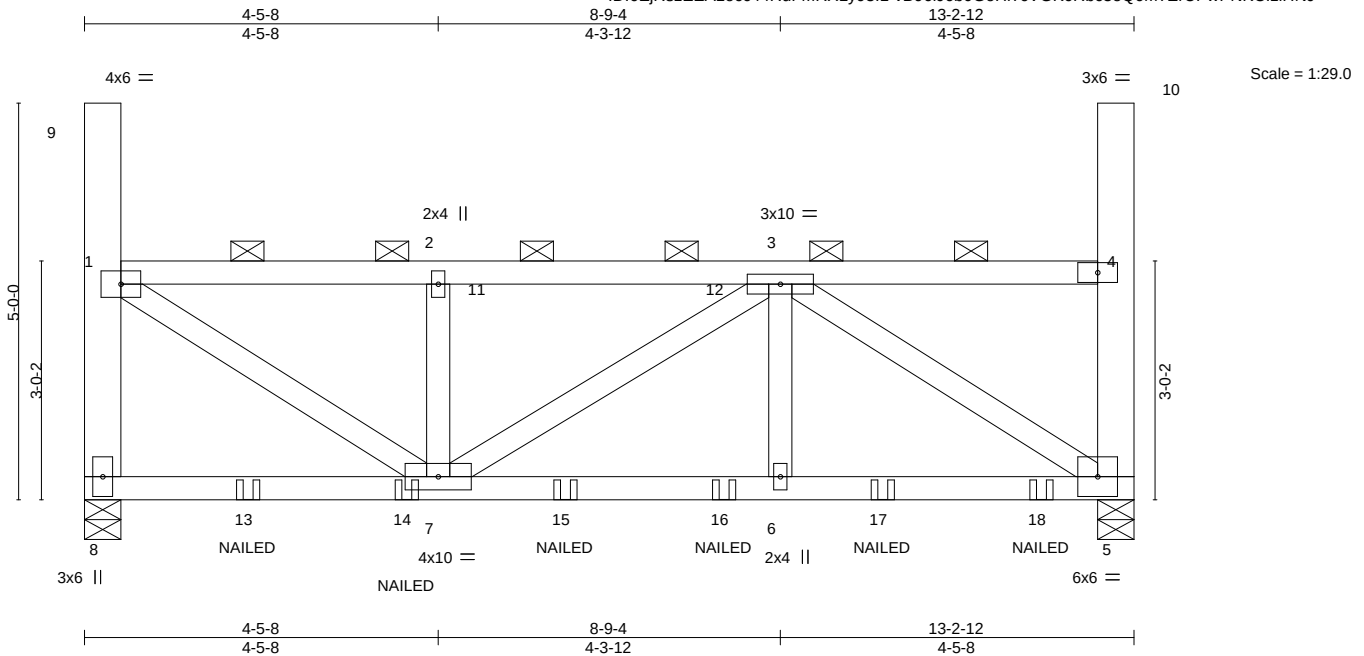
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215648
B212230-G01R	T09	Flat Girder	2	1	Job Reference (optional)	

Mill Creek Truss, LLC,

Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:54 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-vB96iJ6b0GoHi?cVGK6Rbc3eQ6M?ErUPwPNKClzIHJ



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.22	Vert(LL) 0.07	6-7	>999	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.59	Vert(CT) -0.07	5-6	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.56	Horz(CT) -0.02	5	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 67 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 8-9,5-10: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (5-4-0 max.): 1-9, 1-4, 4-10, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-3-5 oc bracing.

REACTIONS.

(size) 8=0-5-8, 5=0-5-8
 Max Horz 8=260(LC 7)
 Max Uplift 8=646(LC 6), 5=729(LC 7)
 Max Grav 8=973(LC 43), 5=1054(LC 42)

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

TOP CHORD 1-8=-828/558, 1-2=-1188/854, 2-3=-1188/854
 BOT CHORD 7-8=-299/311, 6-7=-820/1186, 5-6=-820/1186
 WEBS 1-7=-959/1362, 2-7=-296/82, 3-6=-394/564, 3-5=-1361/957

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.510/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 646 lb uplift at joint 8 and 729 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 17, 18, 19, 20, 25, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 5-8=-20



February 15, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T09	Flat Girder	2	1	I50215648
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:54 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93i1-vB96iJ6b0GoHi?cVGK6Rbc3eQ6M?ErUPwPNKCizIHNJ

- LOAD CASE(S)** Standard
- Concentrated Loads (lb)
Vert: 13=-92(F) 14=-92(F) 15=-92(F) 16=-92(F) 17=-92(F) 18=-92(F)
- Trapezoidal Loads (plf)
Vert: 1=-73-to-11=-64, 11=-64-to-12=-63, 12=-63-to-4=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 5-8=-20
- Concentrated Loads (lb)
Vert: 13=-78(F) 14=-78(F) 15=-78(F) 16=-78(F) 17=-78(F) 18=-78(F)
- Trapezoidal Loads (plf)
Vert: 1=-60-to-11=-53, 11=-53-to-12=-53, 12=-53-to-4=-60
- 17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=18, 1-9=37, 4-5=5, 4-10=25
- Concentrated Loads (lb)
Vert: 13=130(F) 14=130(F) 15=130(F) 16=130(F) 17=130(F) 18=130(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47
- 18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=-5, 1-9=-25, 4-5=-18, 4-10=-37
- Concentrated Loads (lb)
Vert: 13=130(F) 14=130(F) 15=130(F) 16=130(F) 17=130(F) 18=130(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=14, 1-9=-25, 4-5=3, 4-10=25
- Concentrated Loads (lb)
Vert: 13=130(F) 14=130(F) 15=130(F) 16=130(F) 17=130(F) 18=130(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=-3, 1-9=-25, 4-5=-14, 4-10=25
- Concentrated Loads (lb)
Vert: 13=130(F) 14=130(F) 15=130(F) 16=130(F) 17=130(F) 18=130(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47
- 25) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 5-8=-20
- Concentrated Loads (lb)
Vert: 13=-92(F) 14=-92(F) 15=-92(F) 16=-92(F) 17=-92(F) 18=-92(F)
- Trapezoidal Loads (plf)
Vert: 1=-75-to-11=-66, 11=-66-to-12=-66, 12=-66-to-4=-75
- 42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=18, 1-9=37, 4-5=5, 4-10=25
- Concentrated Loads (lb)
Vert: 13=-189(F) 14=-189(F) 15=-189(F) 16=-189(F) 17=-189(F) 18=-189(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47
- 43) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=-5, 1-9=-25, 4-5=-18, 4-10=-37
- Concentrated Loads (lb)
Vert: 13=-189(F) 14=-189(F) 15=-189(F) 16=-189(F) 17=-189(F) 18=-189(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47
- 44) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=14, 1-9=-25, 4-5=3, 4-10=25
- Concentrated Loads (lb)
Vert: 13=-189(F) 14=-189(F) 15=-189(F) 16=-189(F) 17=-189(F) 18=-189(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47
- 45) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T09	Flat Girder	2	1	I50215648
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:54 2022 Page 3
ID:6EjRsZEEA1occ44RuFMRXLy93i1-vB96iJ6b0GoHi?cVGK6Rbc3eQ6M?ErUPwPNKClzIHnJ

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 5-8=-20

Horz: 1-8=-3, 1-9=-25, 4-5=-14, 4-10=25

Concentrated Loads (lb)

Vert: 13=-189(F) 14=-189(F) 15=-189(F) 16=-189(F) 17=-189(F) 18=-189(F)

Trapezoidal Loads (plf)

Vert: 1=-47-to-11=-40, 11=-40-to-12=-40, 12=-40-to-4=-47

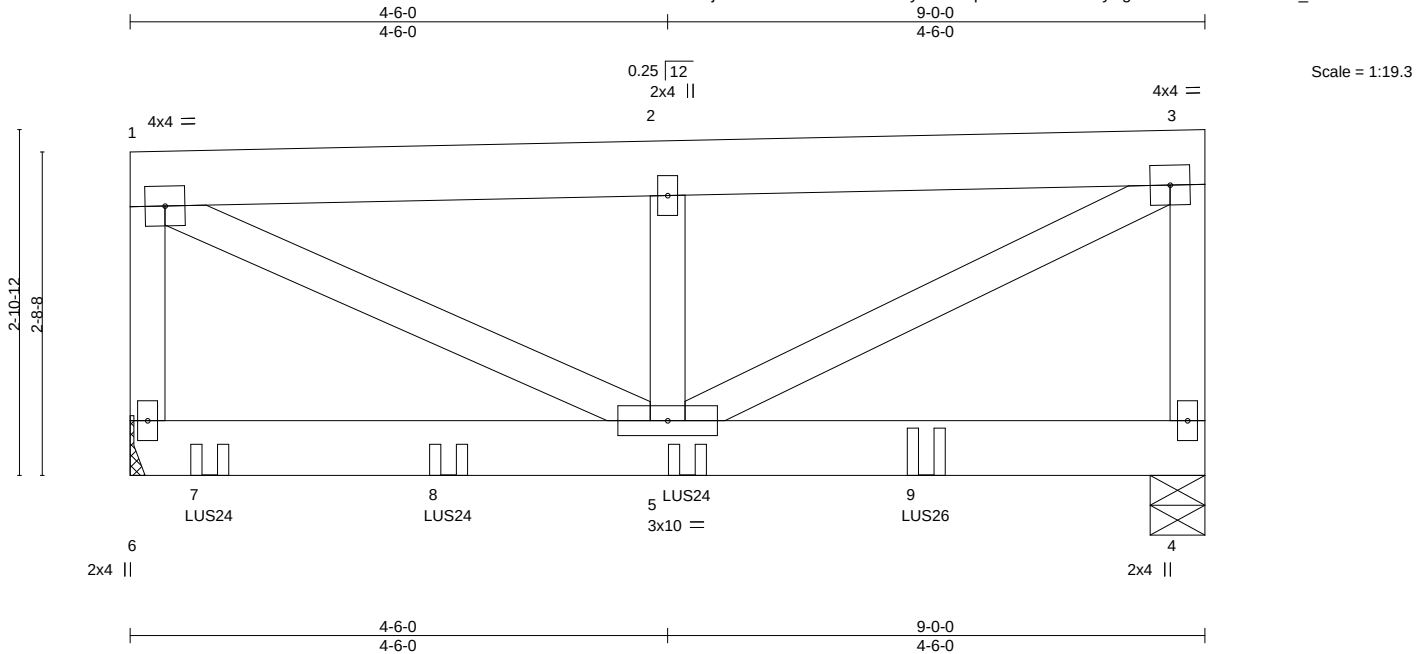
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215649
B212230-G01R	T10	FLAT GIRDER	4	2	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:57 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLY9311-JlqFKL8TIBAsZTL4ySg8DEhCOKVmRIOrCnc_odzIHNG



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0		TC	0.05	in (loc)	l/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	13.9/20.0	Plate Grip DOL	1.15	BC	0.14	0.03	4-5	>999			
TCDL	10.0	Lumber DOL	1.15	WB	0.17	-0.02	5-6	>999			
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-MS		-0.00	4	n/a			
BCDL	10.0	Code IBC2018/TPI2014									
Weight: 98 lb										FT = 20%	

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 6=Mechanical, 4=0-5-8
Max Horz 6=74(LC 7)
Max Uplift 6=-366(LC 6), 4=-492(LC 10)
Max Grav 6=1175(LC 2), 4=953(LC 2)

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

TOP CHORD 1-6=-765/314, 1-2=-1201/507, 2-3=-1202/509, 3-4=-765/300
WEBS 1-5=-583/1349, 2-5=-289/71, 3-5=-563/1373

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 366 lb uplift at joint 6 and 492 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-8-0 from the left end to 4-8-0 to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 6-8-0 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Continued on page 2



February 15, 2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T10	FLAT GIRDER	4	2	I50215649
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:11:57 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy93i1-JlqFKL8TIBAsZTL4ySg8DEhCOKVmRIOrcNc_odzIHNG

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-48, 4-6=-20

Concentrated Loads (lb)

Vert: 5=-254(B) 7=-259(B) 8=-254(B) 9=-324(B)

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T12	Flat	4	1	I50215650
Job Reference (optional)					

Mill Creek Truss, LLC,

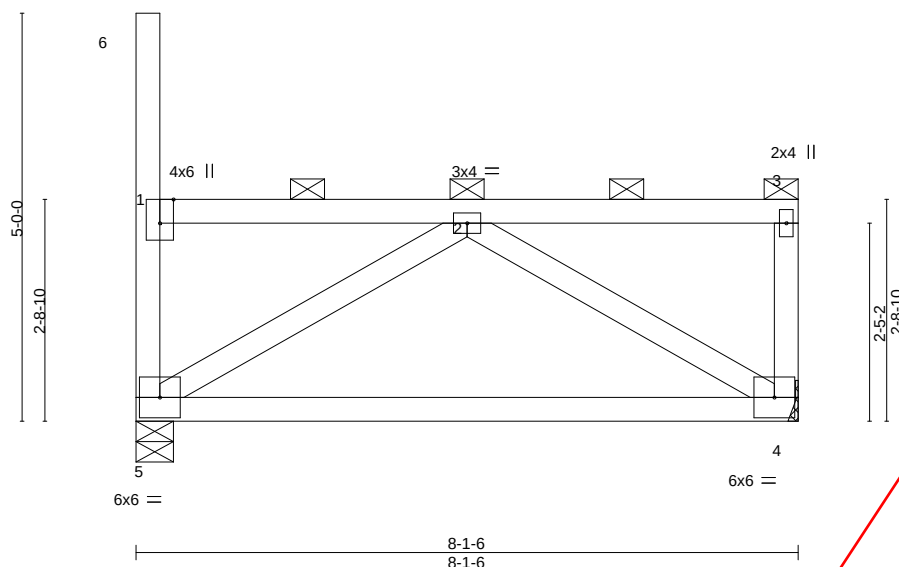
Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:01 2022 Page 1

ID:6EjRsZEEA1occ44RuFMRXLy93I1-CX4mAiB_MQgH24erBik4N4rjvxiqN63QX_aByOzIHNC

4-0-11 8-1-6
4-0-11 4-0-11

Scale = 1:28.2



revise as required
to meet project
deflection limits
-bdc

Plate Offsets (X,Y)-- [1:0-3-8,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0		TC	0.72	in (loc)	l/def	MT20	GRIP
Snow (Pl/Pg)	18.9/20.0	Plate Grip DOL	1.15	BC	0.77	Vert(LL)	-0.22 4-5 >418		197/144
TCDL	10.0	Lumber DOL	1.15	WB	0.12	Vert(CT)	-0.45 4-5 >209		
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-MP		Horz(CT)	-0.01 4 n/a n/a		
BCDL	10.0	Code IBC2018/TPI2014						Weight: 36 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-10 oc bracing.

REACTIONS.

(size) 5=0-5-8, 4=Mechanical
Max Horz 5=-195(LC 10)
Max Uplift 5=-85(LC 10), 4=-85(LC 11)
Max Grav 5=337(LC 29), 4=318(LC 29)

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

TOP CHORD 1-2=-402/284
BOT CHORD 4-5=-527/240
WEBS 2-5=-258/588, 2-4=-282/585

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 5 and 85 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-5=-20



February 15, 2022

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T12	Flat	4	1	I50215650
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:01 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-CX4mAiB_MQgH24erBik4N4rjvxiqN63QX_aByOzIHNC

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-48, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-48
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=18, 1-6=37, 3-4=5
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-5, 1-6=-37, 3-4=-18
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=14, 1-6=-25, 3-4=3
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-3, 1-6=-25, 3-4=-14
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

Building 1

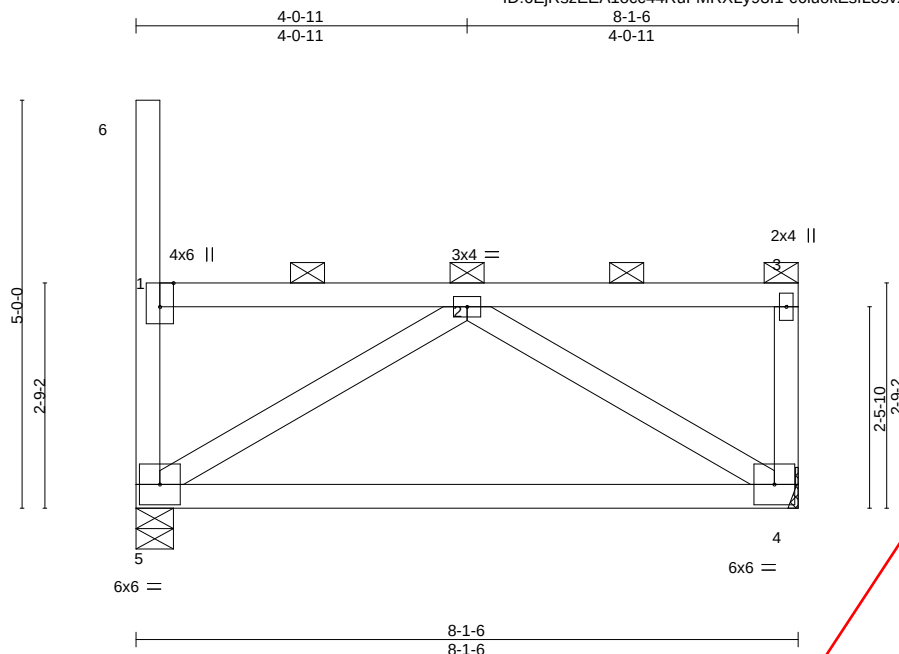
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T13	Flat	4	1	I50215651
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:04 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLY9311-c6luokEsfL3svXNQsQIn?iTEY8kXaTptDyosYzIH9



Scale = 1:28.2

Plate Offsets (X,Y)-- [1:0-3-8,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/def	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.22 4-5	>14.8	240
Snow (Pl/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.45 4-5	>209	180
TCDL	10.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	-0.01 4	n/a	n/a
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MP					
BCDL	10.0								
								Weight: 36 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-5 oc bracing.

REACTIONS.

(size) 5=0-5-8, 4=Mechanical
Max Horz 5=-194(LC 10)
Max Uplift 5=-85(LC 10), 4=-85(LC 11)
Max Grav 5=337(LC 29), 4=318(LC 29)

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

TOP CHORD 1-2=-393/279
BOT CHORD 4-5=-519/236
WEBS 2-5=-255/582, 2-4=-279/578

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 5 and 85 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-5=-20



February 15, 2022

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T13	Flat	4	1	I50215651
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:04 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy93l1-c6luokEsfL3svXNQsQIn?iTEY8kXaTptDyosYjzlHN9

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-48, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-48
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=18, 1-6=37, 3-4=5
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-5, 1-6=-37, 3-4=-18
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=14, 1-6=-25, 3-4=3
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-3, 1-6=-25, 3-4=-14
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

Building 1

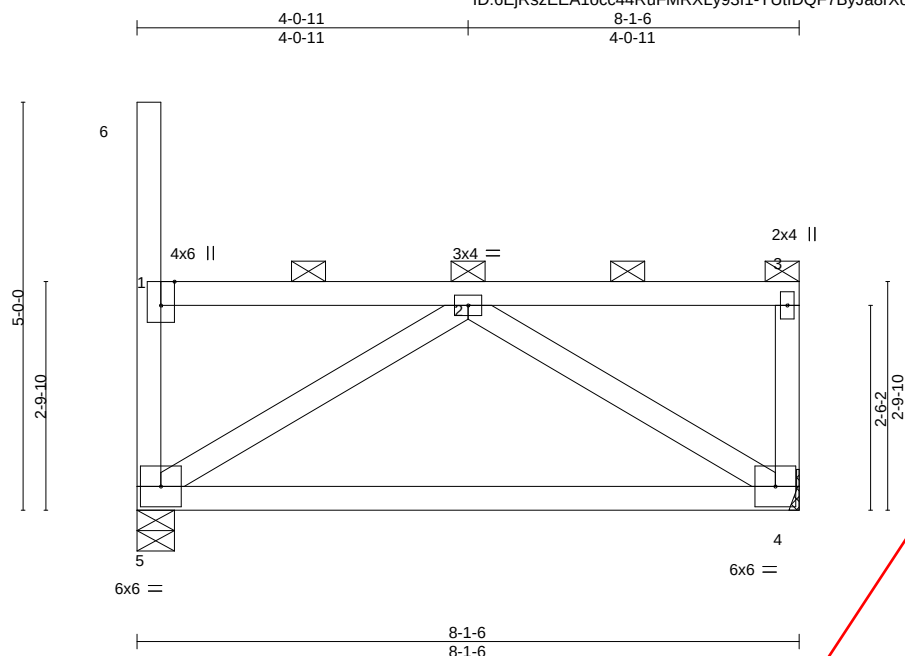
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215652
B212230-G01R	T14	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC,

Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:06 2022 Page 1

ID:6EjRsZEEA1occ44RuFMRXly9311-YUffDQF7ByJa8rXozrKF47ZaTyQ?2NKAhGHYdbzIH7



Scale = 1:28.2

Plate Offsets (X,Y)-- [1:0-3-8,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	L/def	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.22 4-5	>118	240
Snow (Pl/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.45 4-5	>209	180
TCDL	10.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	-0.00 4	n/a	n/a
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MP					
BCDL	10.0								
								Weight: 36 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-8-0 oc bracing.

REACTIONS.

(size) 5=0-5-8, 4=Mechanical
Max Horz 5=-193(LC 10)
Max Uplift 5=-85(LC 10), 4=-85(LC 11)
Max Grav 5=337(LC 29), 4=318(LC 29)

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

TOP CHORD 1-2=-384/274
BOT CHORD 4-5=-512/232
WEBS 2-5=-252/577, 2-4=-275/571

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 5 and 85 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-5=-20



February 15, 2022

Continued on page 2

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T14	Flat	4	1	I50215652
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

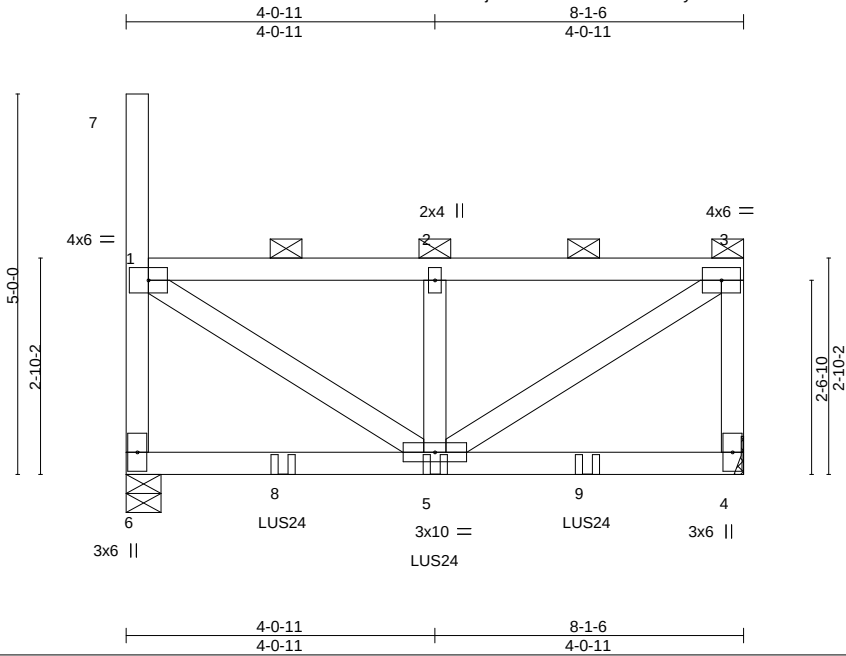
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:07 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-0hR1QmGlyGRRm?6?XZrUdL5IDMIEnqaJvw1W92ziHN6

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-48, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-48
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=18, 1-6=37, 3-4=5
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-5, 1-6=-37, 3-4=-18
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=14, 1-6=-25, 3-4=3
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-3, 1-6=-25, 3-4=-14
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T15	Flat Girder	4	1	I50215653
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:09 2022 Page 1
ID:6EjRSzEEA1occ44RuFMRXLY93I1-z3ZnrRH?Th9?JFNfzyimBC99WTFhjcNEWdEwzIHn4



Scale = 1:30.3

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	TC	0.26	Vert(LL)	0.05	5-6	>999	240	MT20	197/144	
Snow (Pf/Pg)	18.9/20.0	BC	0.47	Vert(CT)	-0.06	5-6	>999	180			
TCDL	10.0	WB	0.27	Horz(CT)	-0.00	4	n/a	n/a			
BCLL	0.0 *	Matrix-MP									
BCDL	10.0										
Weight: 38 lb										FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 6=0-5-8, 4=Mechanical
Max Horz 6=-192(LC 6)
Max Uplift 6=-493(LC 6), 4=-514(LC 7)
Max Grav 6=661(LC 47), 4=643(LC 46)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-550/414, 1-2=-718/608, 2-3=-718/608, 3-4=-530/433
WEBS 1-5=-703/817, 2-5=-281/95, 3-5=-744/864

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 493 lb uplift at joint 6 and 514 lb uplift at joint 4.
 - 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 6-0-12 to connect truss(es) to front face of bottom chord.
 - 13) Fill all nail holes where hanger is in contact with lumber.
 - 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T15	Flat Girder	4	1	I50215653
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:09 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy93I1-z3ZnrRH?Tth9?JFNfzyimBC99WTFhjcNEWdEwzIHn4

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 2-3=-58, 4-6=-20
 - Concentrated Loads (lb)
Vert: 5=-56(F) 8=-56(F) 9=-56(F)
 - Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20
 - Concentrated Loads (lb)
Vert: 5=-56(F) 8=-56(F) 9=-56(F)
 - Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-50, 4-6=-20
 - Concentrated Loads (lb)
Vert: 5=-47(F) 8=-47(F) 9=-47(F)
 - Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-48, 4-6=-20
 - Concentrated Loads (lb)
Vert: 5=-47(F) 8=-47(F) 9=-47(F)
 - Trapezoidal Loads (plf)
Vert: 1=-63-to-2=-48
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 2-3=-20, 4-6=-40
 - Concentrated Loads (lb)
Vert: 5=-18(F) 8=-18(F) 9=-18(F)
 - Trapezoidal Loads (plf)
Vert: 1=-35-to-2=-20
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=12, 1-7=50, 3-4=18
 - Concentrated Loads (lb)
Vert: 5=289(F) 8=289(F) 9=289(F)
 - Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=-18, 1-7=-50, 3-4=-12
 - Concentrated Loads (lb)
Vert: 5=289(F) 8=289(F) 9=289(F)
 - Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 8) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=24, 1-7=50, 3-4=6
 - Concentrated Loads (lb)
Vert: 5=297(F) 8=297(F) 9=297(F)
 - Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 9) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=-6, 1-7=-50, 3-4=-24
 - Concentrated Loads (lb)
Vert: 5=297(F) 8=297(F) 9=297(F)
 - Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15
 - Concentrated Loads (lb)
Vert: 5=289(F) 8=289(F) 9=289(F)
 - Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T15	Flat Girder	4	1	I50215653
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:09 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93I1-z3ZnrRH?Tth9?JFNfzyimBC99WTFhjcNEWdEwzIHn4

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7
- Concentrated Loads (lb)
Vert: 5=289(F) 8=289(F) 9=289(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15
- Concentrated Loads (lb)
Vert: 5=289(F) 8=289(F) 9=289(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7
- Concentrated Loads (lb)
Vert: 5=289(F) 8=289(F) 9=289(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=19, 1-7=-33, 3-4=4
- Concentrated Loads (lb)
Vert: 5=297(F) 8=297(F) 9=297(F)
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=-4, 1-7=-33, 3-4=-19
- Concentrated Loads (lb)
Vert: 5=297(F) 8=297(F) 9=297(F)
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 2-3=-20, 4-6=-20
- Concentrated Loads (lb)
Vert: 5=-18(F) 8=-18(F) 9=-18(F)
- Trapezoidal Loads (plf)
Vert: 1=-35-to-2=-20
- 17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5
- Concentrated Loads (lb)
Vert: 5=207(F) 8=207(F) 9=207(F)
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-37, 3-4=-18
- Concentrated Loads (lb)
Vert: 5=207(F) 8=207(F) 9=207(F)
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3
- Concentrated Loads (lb)
Vert: 5=207(F) 8=207(F) 9=207(F)
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14
- Concentrated Loads (lb)
Vert: 5=207(F) 8=207(F) 9=207(F)

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T15	Flat Girder	4	1	I50215653
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:09 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93I1-z3ZnrRH?Tth9?JFNfztyimBC99WTFhjcNEWdEwzIHn4

LOAD CASE(S) Standard

- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5
Concentrated Loads (lb)
Vert: 5=201(F) 8=201(F) 9=201(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=-5, 1-7=-37, 3-4=-18
Concentrated Loads (lb)
Vert: 5=201(F) 8=201(F) 9=201(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37
- 23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3
Concentrated Loads (lb)
Vert: 5=201(F) 8=201(F) 9=201(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37
- 24) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14
Concentrated Loads (lb)
Vert: 5=201(F) 8=201(F) 9=201(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37
- 25) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-56(F) 8=-56(F) 9=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60
- 26) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-12, 4-6=-12
Horz: 1-6=16, 1-7=16
Concentrated Loads (lb)
Vert: 5=283(F) 8=283(F) 9=283(F)
Trapezoidal Loads (plf)
Vert: 1=-27-to-2=-12
- 27) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-12, 4-6=-12
Horz: 1-7=-16, 3-4=-16
Concentrated Loads (lb)
Vert: 5=283(F) 8=283(F) 9=283(F)
Trapezoidal Loads (plf)
Vert: 1=-27-to-2=-12
- 28) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-56(F) 8=-56(F) 9=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60
- 29) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-56(F) 8=-56(F) 9=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60
- 30) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-50, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-47(F) 8=-47(F) 9=-47(F)

Continued on page 5

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T15	Flat Girder	4	1	I50215653
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:09 2022 Page 5
ID:6EjRszEEA1occ44RuFMRXLy93I1-z3ZnrRH?Tth9?JFNfzyimBC99WTFhjcNEWdEwzIHN4

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50
- 31) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-50, 4-6=-20
- Concentrated Loads (lb)
Vert: 5=-47(F) 8=-47(F) 9=-47(F)
- Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=12, 1-7=50, 3-4=18
- Concentrated Loads (lb)
Vert: 5=-295(F) 8=-295(F) 9=-295(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=-18, 1-7=-50, 3-4=-12
- Concentrated Loads (lb)
Vert: 5=-295(F) 8=-295(F) 9=-295(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=24, 1-7=50, 3-4=6
- Concentrated Loads (lb)
Vert: 5=-287(F) 8=-287(F) 9=-287(F)
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=-6, 1-7=-50, 3-4=-24
- Concentrated Loads (lb)
Vert: 5=-287(F) 8=-287(F) 9=-287(F)
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15
- Concentrated Loads (lb)
Vert: 5=-295(F) 8=-295(F) 9=-295(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7
- Concentrated Loads (lb)
Vert: 5=-295(F) 8=-295(F) 9=-295(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15
- Concentrated Loads (lb)
Vert: 5=-295(F) 8=-295(F) 9=-295(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7
- Concentrated Loads (lb)
Vert: 5=-295(F) 8=-295(F) 9=-295(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 6

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T15	Flat Girder	4	1	I50215653
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:09 2022 Page 6
ID:6EjRszEEA1occ44RuFMRXLy93I1-z3ZnrRH?Tth9?JFNfzyimBC99WTFhjcNEWdEwzIHn4

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=19, 1-7=-33, 3-4=4
- Concentrated Loads (lb)
Vert: 5=-287(F) 8=-287(F) 9=-287(F)
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-6=-20
Horz: 1-6=-4, 1-7=-33, 3-4=-19
- Concentrated Loads (lb)
Vert: 5=-287(F) 8=-287(F) 9=-287(F)
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5
- Concentrated Loads (lb)
Vert: 5=-235(F) 8=-235(F) 9=-235(F)
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 43) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-37, 3-4=-18
- Concentrated Loads (lb)
Vert: 5=-235(F) 8=-235(F) 9=-235(F)
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 44) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3
- Concentrated Loads (lb)
Vert: 5=-235(F) 8=-235(F) 9=-235(F)
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 45) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14
- Concentrated Loads (lb)
Vert: 5=-235(F) 8=-235(F) 9=-235(F)
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 46) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5
- Concentrated Loads (lb)
Vert: 5=-241(F) 8=-241(F) 9=-241(F)
- Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37
- 47) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=-5, 1-7=-37, 3-4=-18
- Concentrated Loads (lb)
Vert: 5=-241(F) 8=-241(F) 9=-241(F)
- Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37
- 48) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-38, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3
- Concentrated Loads (lb)
Vert: 5=-241(F) 8=-241(F) 9=-241(F)
- Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37
- 49) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 7

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T15	Flat Girder	4	1	I50215653
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLy93I1-z3ZnrRH?Tth9?JFNfztyimBC99WTFhjcNEWdEwzIHN4

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
 - Vert: 2-3=-38, 4-6=-20
 - Horz: 1-6=-3, 1-7=-25, 3-4=-14
 - Concentrated Loads (lb)
 - Vert: 5=-241(F) 8=-241(F) 9=-241(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-53-to-2=-37
- 50) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
 - Vert: 2-3=-12, 4-6=-12
 - Horz: 1-6=16, 1-7=16
 - Concentrated Loads (lb)
 - Vert: 5=-290(F) 8=-290(F) 9=-290(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-27-to-2=-12
- 51) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
 - Vert: 2-3=-12, 4-6=-12
 - Horz: 1-7=-16, 3-4=-16
 - Concentrated Loads (lb)
 - Vert: 5=-290(F) 8=-290(F) 9=-290(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-27-to-2=-12

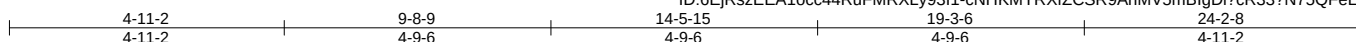
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215654
B212230-G01R	T16	Flat Girder	2	2	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRsZEEA1occ44RuFMRXLy93I1-cNHKMYRXfZCSR9AhMV5mBigDI?cR33?N75QFeEzIHMu



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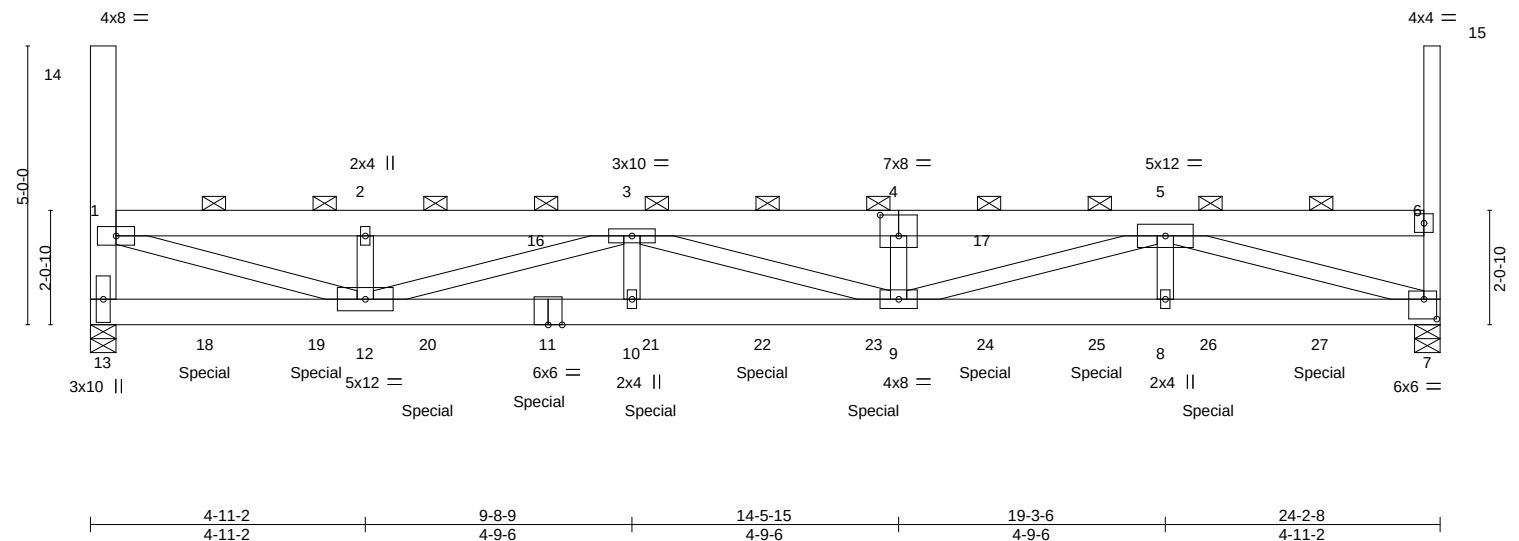


Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:0-2-12,0-4-4]															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL		1.15		TC	0.34	Vert(LL)	0.39	9-10	>733	240	MT20	197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL		1.15		BC	0.46	Vert(CT)	-0.36	9-10	>795	180			
TCDL	10.0	Rep Stress Incr		NO		WB	0.51	Horz(CT)	-0.06	7	n/a	n/a			
BCLL	0.0 *	Code IBC2018/TPI2014				Matrix-MS							Weight: 260 lb	FT = 20%	
BCDL	10.0														

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
13-14: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-14, 1-6, 6-15, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-2 oc bracing.

REACTIONS. (size) 13=0-5-8, 7=0-5-8
Max Horz 13=313(LC 9)
Max Uplift 13=-1583(LC 6), 7=-1566(LC 7)
Max Grav 13=1987(LC 47), 7=1972(LC 46)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1718/1374, 1-2=-4976/4087, 2-3=-4976/4087, 3-4=-7397/6111, 4-5=-7397/6111,
5-6=-482/368
BOT CHORD 12-13=-640/716, 10-12=-6064/7466, 9-10=-6064/7466, 8-9=-4056/4916, 7-8=-4056/4916
WEBS 1-12=-3905/4802, 2-12=-271/167, 3-12=-2722/2249, 3-10=-590/734, 4-9=-280/90,
5-9=-2209/2658, 5-8=-585/740, 5-7=-4959/4005

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1583 lb uplift at joint 13 and 1566 lb uplift at joint 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 17, 18, 19, 20, 25, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

2D/3D graphical representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 15, 2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T16	Flat Girder	2	2	I50215654

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLy93l1-4ZriauR9QtKJ3JltvCc?kVDOVPygoWFWMI9pAgzIHmt

NOTES-

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 276 lb down and 278 lb up at 2-0-12, 276 lb down and 278 lb up at 4-0-12, 276 lb down and 278 lb up at 6-0-12, 276 lb down and 278 lb up at 8-0-12, 276 lb down and 278 lb up at 10-0-12, 276 lb down and 278 lb up at 12-0-12, 276 lb down and 278 lb up at 14-0-12, 276 lb down and 278 lb up at 16-0-12, 276 lb down and 278 lb up at 18-0-12, and 276 lb down and 278 lb up at 20-0-12, and 276 lb down and 278 lb up at 22-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard Except:

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 16-17=-58, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-67(B) 18=-67(B) 19=-67(B) 20=-67(B) 21=-67(B) 22=-67(B) 23=-67(B) 24=-67(B) 25=-67(B) 26=-67(B) 27=-67(B)
Trapezoidal Loads (plf)
Vert: 1=-73-to-16=-58, 17=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 16-17=-48, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-56(B) 18=-56(B) 19=-56(B) 20=-56(B) 21=-56(B) 22=-56(B) 23=-56(B) 24=-56(B) 25=-56(B) 26=-56(B) 27=-56(B)
Trapezoidal Loads (plf)
Vert: 1=-60-to-16=-48, 17=-60-to-6=-48
- 17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=18, 1-14=37, 6-7=5, 6-15=25
Concentrated Loads (lb)
Vert: 11=190(B) 18=190(B) 19=190(B) 20=190(B) 21=190(B) 22=190(B) 23=190(B) 24=190(B) 25=190(B) 26=190(B) 27=190(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-47-to-6=-36
- 18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=-5, 1-14=-25, 6-7=-18, 6-15=-37
Concentrated Loads (lb)
Vert: 11=190(B) 18=190(B) 19=190(B) 20=190(B) 21=190(B) 22=190(B) 23=190(B) 24=190(B) 25=190(B) 26=190(B) 27=190(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-47-to-6=-36
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=14, 1-14=-25, 6-7=3, 6-15=25
Concentrated Loads (lb)
Vert: 11=190(B) 18=190(B) 19=190(B) 20=190(B) 21=190(B) 22=190(B) 23=190(B) 24=190(B) 25=190(B) 26=190(B) 27=190(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-47-to-6=-36
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=-3, 1-14=-25, 6-7=-14, 6-15=25
Concentrated Loads (lb)
Vert: 11=190(B) 18=190(B) 19=190(B) 20=190(B) 21=190(B) 22=190(B) 23=190(B) 24=190(B) 25=190(B) 26=190(B) 27=190(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-47-to-6=-36
- 25) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 16-17=-60, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-67(B) 18=-67(B) 19=-67(B) 20=-67(B) 21=-67(B) 22=-67(B) 23=-67(B) 24=-67(B) 25=-67(B) 26=-67(B) 27=-67(B)
Trapezoidal Loads (plf)
Vert: 1=-75-to-16=-60, 17=-60-to-6=-75
- 42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=18, 1-14=37, 6-7=5, 6-15=25
Concentrated Loads (lb)
Vert: 11=-224(B) 18=-224(B) 19=-224(B) 20=-224(B) 21=-224(B) 22=-224(B) 23=-224(B) 24=-224(B) 25=-224(B) 26=-224(B) 27=-224(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-47-to-6=-36
- 43) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=-5, 1-14=-25, 6-7=-18, 6-15=-37
Concentrated Loads (lb)
Vert: 11=-224(B) 18=-224(B) 19=-224(B) 20=-224(B) 21=-224(B) 22=-224(B) 23=-224(B) 24=-224(B) 25=-224(B) 26=-224(B) 27=-224(B)

Continued on page 3

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T16	Flat Girder	2	2	I50215654

Mill Creek Truss, LLC, Halstead, KS - 67056,

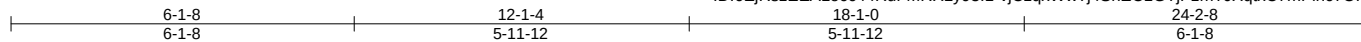
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:22 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93I1-4ZriauR9QtKJ3JltvCc?kVDOVPygoWFWWMI9pAgzIHmt

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-47-to-6=-36
- 44) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=14, 1-14=-25, 6-7=3, 6-15=25
- Concentrated Loads (lb)
Vert: 11=-224(B) 18=-224(B) 19=-224(B) 20=-224(B) 21=-224(B) 22=-224(B) 23=-224(B) 24=-224(B) 25=-224(B) 26=-224(B) 27=-224(B)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-47-to-6=-36
- 45) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=-3, 1-14=-25, 6-7=-14, 6-15=25
- Concentrated Loads (lb)
Vert: 11=-224(B) 18=-224(B) 19=-224(B) 20=-224(B) 21=-224(B) 22=-224(B) 23=-224(B) 24=-224(B) 25=-224(B) 26=-224(B) 27=-224(B)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-47-to-6=-36

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215655
B212230-G01R	T17	Flat	2	1	Job Reference (optional)	

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:28 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-vjCzqxWw?j4SnEC1GTjPzmTJXqtxC7mPlhc7OKzIHmN



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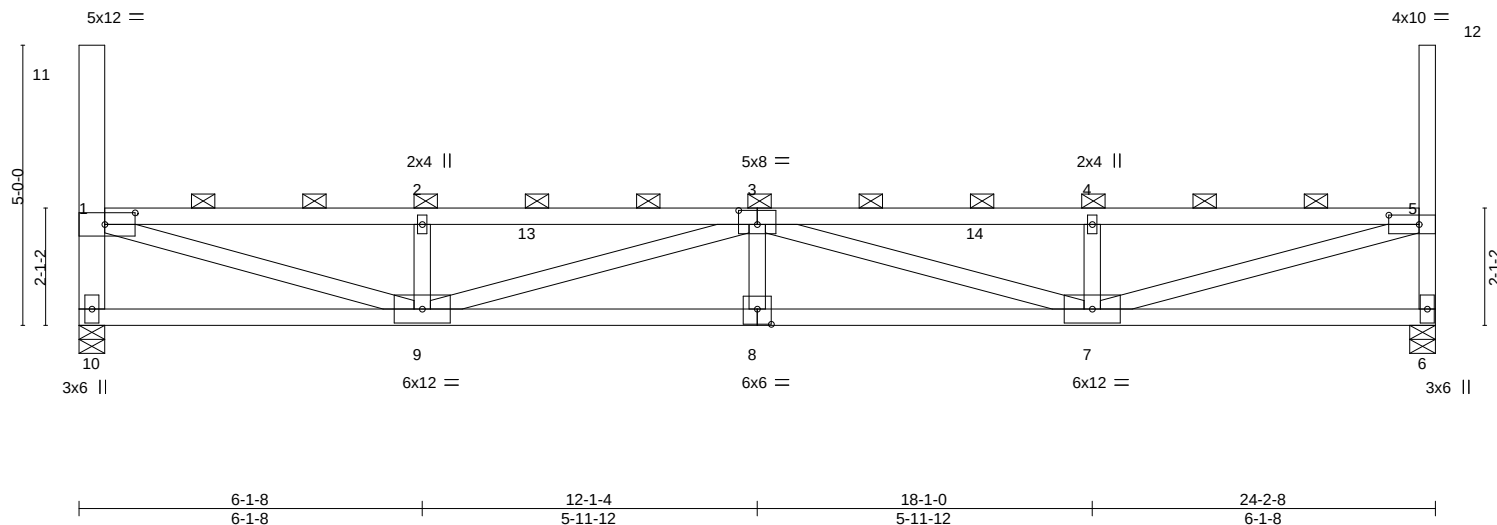


Plate Offsets (X,Y)-- [1:0-6-8,0-2-8], [3:0-4-0,0-3-0], [5:0-6-8,0-2-0], [8:0-3-0,0-3-4]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	0.28	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.50	7-8	>571	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							Weight: 100 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (2-11-10 max.): 1-11, 1-5, 5-12, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-3-2 oc bracing.
WEBS	2x4 SPF No.2 *Except* 10-11: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 10=0-5-8, 6=0-5-8
 Max Horz 10=309(LC 11)
 Max Uplift 10=-83(LC 10), 6=-36(LC 11)
 Max Grav 10=1012(LC 29), 6=1013(LC 29)

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

TOP CHORD 1-10=-947/580, 1-2=-2544/1386, 2-3=-2544/1386, 3-4=-2572/1345, 4-5=-2572/1345,
5-6=-948/538

BOT CHORD 9-10=-680/672, 8-9=-1862/3326, 7-8=-1862/3326

WEBS 1-9=-1465/2546, 2-9=-396/337, 3-9=-848/635, 3-7=-787/670, 4-7=-403/318,
5-7=-1428/2580

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) C-C wind load user defined.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 10 and 36 lb uplift at joint 6.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

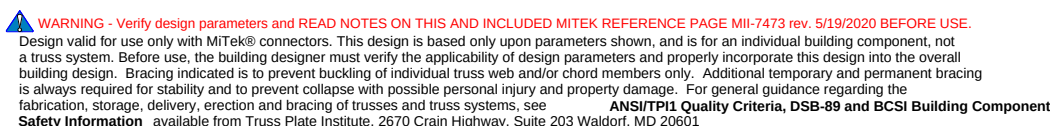
LOAD CASE(S)

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



February 15, 2022

Continued on page 2



Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T17	Flat	2	1	I50215655
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:28 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-vjCzqxWw?j4SnEC1GTjPzmTjXqtc7mPlhc7OKzIHmN

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 13-14=-58, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-73-to-13=-58, 14=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-14=-60, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 14=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-14=-50, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 14=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 13-14=-48, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-13=-48, 14=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-14=-20, 6-10=-40
- Trapezoidal Loads (plf)
Vert: 14=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=54, 6-10=-12
Horz: 1-10=19, 1-11=87, 5-6=34, 5-12=55
- Trapezoidal Loads (plf)
Vert: 14=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=54, 6-10=-12
Horz: 1-10=-34, 1-11=-55, 5-6=-19, 5-12=-87
- Trapezoidal Loads (plf)
Vert: 14=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=-32, 6-10=-20
Horz: 1-10=-23, 1-11=36, 5-6=-31, 5-12=55
- Trapezoidal Loads (plf)
Vert: 14=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=-32, 6-10=-20
Horz: 1-10=31, 1-11=-55, 5-6=23, 5-12=-36
- Trapezoidal Loads (plf)
Vert: 14=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=16, 6-10=-12
Horz: 1-10=12, 1-11=50, 5-6=18, 5-12=33
- Trapezoidal Loads (plf)
Vert: 14=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=16, 6-10=-12
Horz: 1-10=-18, 1-11=-33, 5-6=-12, 5-12=-50
- Trapezoidal Loads (plf)
Vert: 14=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=-3, 6-10=-20
Horz: 1-10=24, 1-11=50, 5-6=6, 5-12=33
- Trapezoidal Loads (plf)
Vert: 14=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=-3, 6-10=-20
Horz: 1-10=-6, 1-11=-33, 5-6=-24, 5-12=-50
- Trapezoidal Loads (plf)
Vert: 14=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T17	Flat	2	1	I50215655
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:28 2022 Page 3
ID:6EjRsZEEA1occ44RuFMRXLy93l1-vjCzqxWw?j4SnEC1GTjPzmTjXqtc7mPlhc7OKzIHmN

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 1-14=16, 6-10=-12
Horz: 1-10=7, 1-11=-33, 5-6=15, 5-12=33
- Trapezoidal Loads (plf)
Vert: 14=16-to-5=1
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=16, 6-10=-12
Horz: 1-10=-15, 1-11=-33, 5-6=-7, 5-12=33
- Trapezoidal Loads (plf)
Vert: 14=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=16, 6-10=-12
Horz: 1-10=7, 1-11=-33, 5-6=15, 5-12=33
- Trapezoidal Loads (plf)
Vert: 14=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=16, 6-10=-12
Horz: 1-10=-15, 1-11=-33, 5-6=-7, 5-12=33
- Trapezoidal Loads (plf)
Vert: 14=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=-3, 6-10=-20
Horz: 1-10=19, 1-11=-33, 5-6=4, 5-12=33
- Trapezoidal Loads (plf)
Vert: 14=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=-3, 6-10=-20
Horz: 1-10=-4, 1-11=-33, 5-6=-19, 5-12=33
- Trapezoidal Loads (plf)
Vert: 14=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 1-14=-20, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 14=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=-38, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
- Trapezoidal Loads (plf)
Vert: 14=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-14=-38, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-37
- Trapezoidal Loads (plf)
Vert: 14=-38-to-5=-53

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T17	Flat	2	1	I50215655
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:28 2022 Page 4
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LOAD CASE(S)

- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-38, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
Trapezoidal Loads (plf)
Vert: 14=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-38, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
Trapezoidal Loads (plf)
Vert: 14=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-28, 6-10=-12
Horz: 1-10=-16, 1-11=33, 5-6=-16, 5-12=33
Trapezoidal Loads (plf)
Vert: 14=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=4, 6-10=-12
Horz: 1-10=16, 1-11=33, 5-6=16, 5-12=33
Trapezoidal Loads (plf)
Vert: 14=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 14=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 14=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-50, 6-10=-20
Trapezoidal Loads (plf)
Vert: 14=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-50, 6-10=-20
Trapezoidal Loads (plf)
Vert: 14=-50-to-5=-65

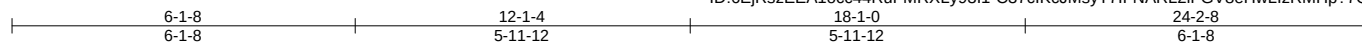
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215656
B212230-G01R	T18	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:35 2022 Page 1

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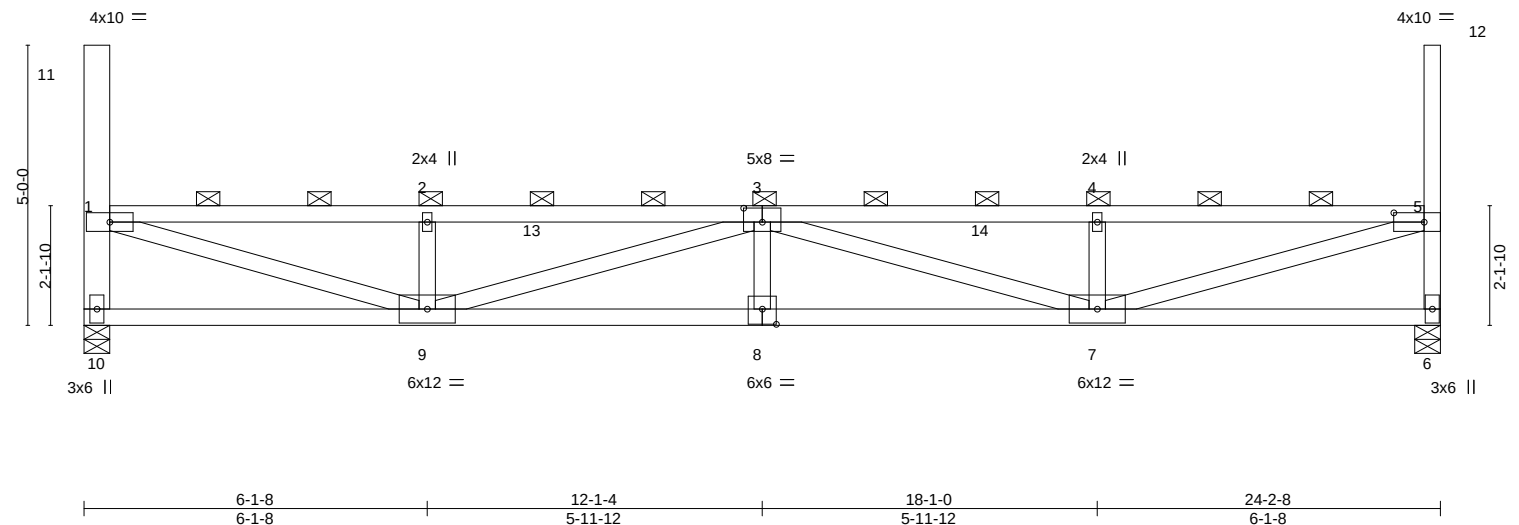


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-6-8,0-2-0], [8:0-3-0,0-3-4]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.27	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.48	7-8	>597	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							Weight: 100 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
10-11: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-0-5 max.): 1-11, 1-5, 5-12, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-5 oc bracing.

REACTIONS.

(size) 10=0-5-8, 6=0-5-8
Max Horz 10=-306(LC 10)
Max Uplift 10=-31(LC 10), 6=-30(LC 11)
Max Grav 10=1012(LC 2), 6=1013(LC 2)

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

TOP CHORD 1-10=-948/528, 1-2=-2488/1288, 2-3=-2488/1288, 3-4=-2516/1294, 4-5=-2516/1294,
5-6=-949/531
BOT CHORD 9-10=-657/671, 8-9=-1787/3252, 7-8=-1787/3252
WEBS 1-9=-1377/2497, 2-9=-396/310, 3-9=-800/651, 3-7=-770/636, 4-7=-404/317,
5-7=-1377/2530

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- C-C wind load user defined.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 10 and 30 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



February 15, 2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T18	Flat	2	1	I50215656
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:36 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-gGh_Wgcx7A5KkSpZk8sHISogu2d94kCaaxYYgszIHmf

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 13-14=-58, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-73-to-13=-58, 14=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 13-14=-50, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-13=-50, 14=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 13-14=-48, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-63-to-13=-48, 14=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 13-14=-20, 6-10=-40
- Trapezoidal Loads (plf)
Vert: 1=-35-to-13=-20, 14=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=54, 6-10=12
Horz: 1-10=19, 1-11=87, 5-6=34, 5-12=55
- Trapezoidal Loads (plf)
Vert: 1=39-to-13=54, 14=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=54, 6-10=12
Horz: 1-10=-34, 1-11=-55, 5-6=-19, 5-12=-87
- Trapezoidal Loads (plf)
Vert: 1=39-to-13=54, 14=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-32, 6-10=-20
Horz: 1-10=-23, 1-11=36, 5-6=-31, 5-12=55
- Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-32, 14=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-32, 6-10=-20
Horz: 1-10=31, 1-11=-55, 5-6=23, 5-12=-36
- Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-32, 14=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=12, 1-11=50, 5-6=18, 5-12=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=-18, 1-11=-33, 5-6=-12, 5-12=-50
- Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=24, 1-11=50, 5-6=6, 5-12=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=-6, 1-11=-33, 5-6=-24, 5-12=-50
- Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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

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Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T18	Flat	2	1	I50215656
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:36 2022 Page 3
ID:6EjRsZEEA1occ44RuFMRXLy93l1-gGh_Wgcx7A5KkSpZk8sHISogu2d94kCaaxYYgszIHmf

LOAD CASE(S)

- Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=7, 1-11=-33, 5-6=15, 5-12=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=-15, 1-11=-33, 5-6=-7, 5-12=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=7, 1-11=-33, 5-6=15, 5-12=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=-15, 1-11=-33, 5-6=-7, 5-12=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=19, 1-11=-33, 5-6=4, 5-12=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=-4, 1-11=-33, 5-6=-19, 5-12=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 13-14=-20, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-35-to-13=-20, 14=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-37
- Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-37
- Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T18	Flat	2	1	I50215656
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:36 2022 Page 4
ID:6EjRsZEEA1occ44RuFMRXLy93l1-gGh_Wgcx7A5KkSpZk8sHISogu2d94kCaaxYYgszIHmf

LOAD CASE(S)

- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 13-14=-38, 6-10=-20
- Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-13=-38, 14=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 13-14=-38, 6-10=-20
- Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-13=-38, 14=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 13-14=-60, 6-10=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-13=-60, 14=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 13-14=-28, 6-10=-12
- Horz: 1-10=-16, 1-11=33, 5-6=-16, 5-12=33
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-13=-28, 14=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 13-14=4, 6-10=-12
- Horz: 1-10=16, 1-11=33, 5-6=16, 5-12=33
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-13=4, 14=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 13-14=-60, 6-10=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-13=-60, 14=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 13-14=-60, 6-10=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-13=-60, 14=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 13-14=-50, 6-10=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-13=-50, 14=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 13-14=-50, 6-10=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-13=-50, 14=-50-to-5=-65

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215657
B212230-G01R	T19	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:41 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly9311-1DUtZOG4xijcrDiXxiSS?wVX?3Kgl5dJkDGJL4ziHMa

6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Scale = 1:40.4

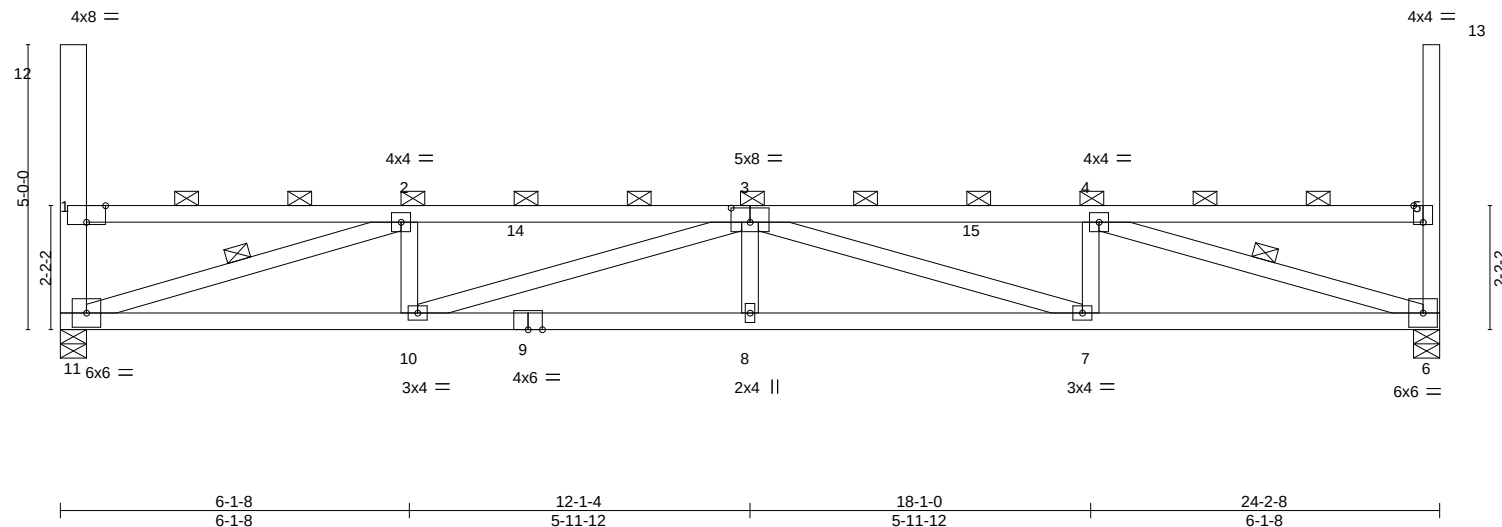


Plate Offsets (X,Y)-- [1:0-4-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.27 8 >999 240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.46 7-8 >624 180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.11 6 n/a n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS				Weight: 100 lb	FT = 20%
BCDL	10.0								

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
11-12: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-4-15 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-12 oc bracing.
WEBS 1 Row at midpt 2-11, 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=-304(LC 10)
Max Uplift 11=-31(LC 10), 6=-30(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

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

TOP CHORD 1-2=-433/353, 2-3=-2435/1258, 3-4=-2463/1269, 4-5=-420/342
BOT CHORD 10-11=-1552/2435, 8-10=-1754/3181, 7-8=-1754/3181, 6-7=-1157/2463
WEBS 2-11=-2451/1355, 2-10=-110/420, 3-10=-782/633, 3-7=-753/625, 4-7=-110/418,
4-6=-2484/1346

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 11 and 30 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15, 2022

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T19	Flat	2	1	I50215657
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:41 2022 Page 2
ID:6EJRszEEA1occ44RuFMRLy93l1-1DUtZ0g4xijcrDiXXISS?WVX?3KgI5dJkDGJL4zIHMa

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T19	Flat	2	1	I50215657
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:41 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93I1-1DUtZOG4xijcrDiXXiSS?WVX?3KgI5dJkDGJL4zIHMa

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T19	Flat	2	1	I50215657
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:41 2022 Page 4
ID:6EjRszEEA1occ44RuFMRLy93l1-1DUtZOG4xijcrDiXXiSS?WVX?3Kgl5dJkDGJL4zIHMa

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T20	Flat	2	1	I50215658
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:43 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy93l1-zcce_4iKTJzK4Xswe6Uw4xbutt0SD?FcBXlQqyZlHMY

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T20	Flat	2	1	I50215658
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:43 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93l1-zcce_4iKTJzK4Xswe6Uw4xbutt0SD?FcBXlQqyZlHMY

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4



Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T20	Flat	2	1	I50215658
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:43 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93l1-zcce_4iKTJzK4Xswe6Uw4xbutt0SD?FcBXlQqyZlHMY

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

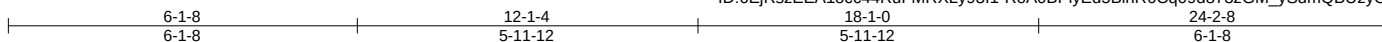
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215659
B212230-G01R	T21	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:44 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly93l1-RoA0BPiyEd5BihR6Cq09d873zGM_ySdmQBuzOzIHMx



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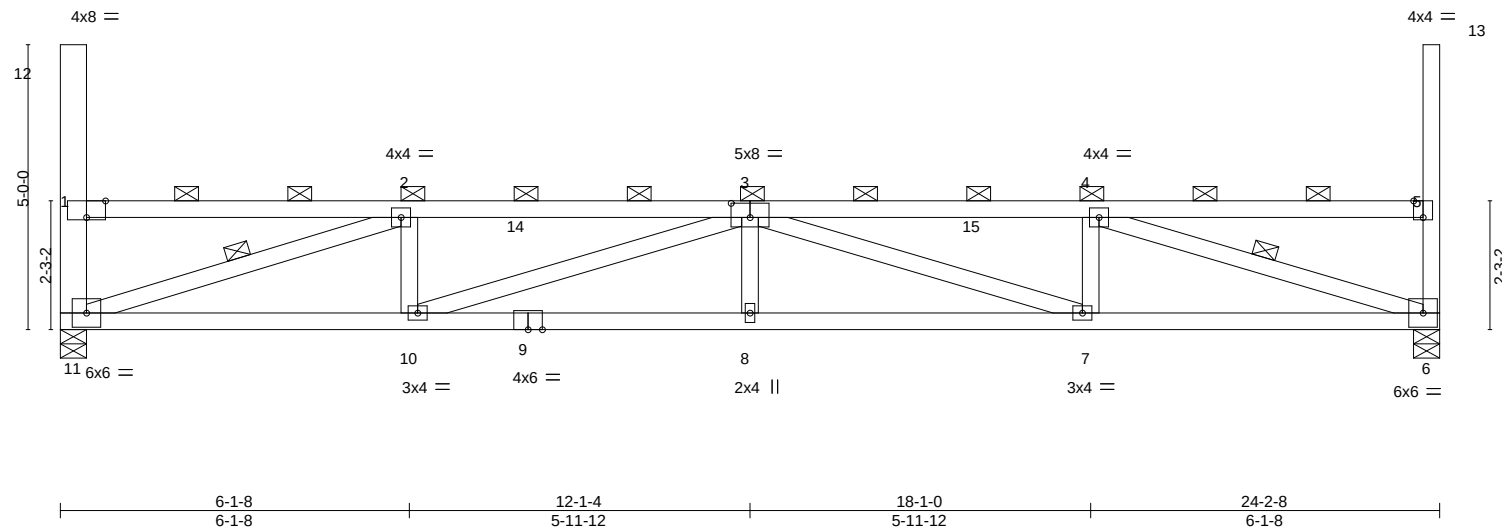


Plate Offsets (X,Y)-- [1:0-4-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]														
LOADING (psf)			SPACING- 2-0-0			CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL (roof)	20.0		Plate Grip DOL	1.15		TC	0.73	Vert(LL)	0.25	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0		Lumber DOL	1.15		BC	0.90	Vert(CT)	-0.42	7-8	>676	180		
TCDL	10.0		Rep Stress Incr	NO		WB	0.51	Horz(CT)	0.11	6	n/a	n/a		
BCLL	0.0	*	Code IBC2018/TPI2014			Matrix-MS							Weight: 101 lb	FT = 20%
BCDL	10.0													

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
11-12: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-6-1 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-5-14 oc bracing.
WEBS 1 Row at midpt 2-11, 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=-300(LC 10)
Max Uplift 11=-31(LC 10), 6=-29(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-411/336, 2-3=-2335/1207, 3-4=-2362/1217, 4-5=-398/326
BOT CHORD 10-11=-1495/2335, 8-10=-1689/3049, 7-8=-1689/3049, 6-7=-1120/2362
WEBS 2-11=-2362/1303, 2-10=-110/421, 3-10=-751/607, 3-7=-723/599, 4-7=-110/418,
4-6=-2394/1295

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 11 and 29 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T21	Flat	2	1	I50215659
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:44 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-RoA0BPiyEd5BihR6Cq09d873zGM_ySdmQBUzyOzIHMX

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T21	Flat	2	1	I50215659
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:44 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXly93l1-RoA0BPiyEd5BihR6Cq09d873zGM_ySdmQBUzyOzIHMX

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T21	Flat	2	1	I50215659
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:44 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93l1-RoA0BPiyEd5BihR6Cq09d873zGM_ySdmQBUzyOzIHMX

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

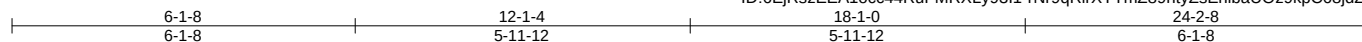
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215660
B212230-G01R	T22	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:47 2022 Page 1

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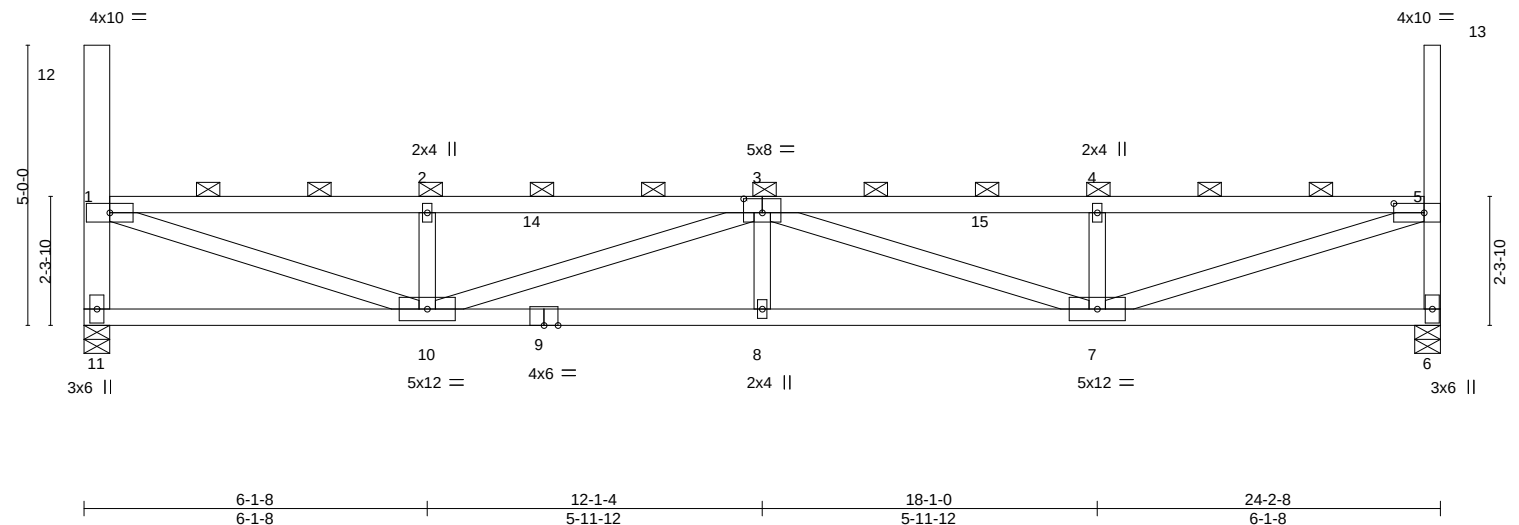


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-6-8,0-2-0]																	
LOADING (psf)			SPACING-			CSI.			DEFL.			PLATES			GRIP		
TCLL (roof)	20.0			2-0-0		TC	0.70		in (loc)	l/defl	L/d		MT20		197/144		
Snow (Pf/Pg)	18.9/20.0			Plate Grip DOL	1.15	BC	0.88		Vert(LL)	0.23	8	>999	240				
TCDL	10.0			Lumber DOL	1.15	WB	0.87		Vert(CT)	-0.41	7-8	>701	180				
BCLL	0.0	*		Rep Stress Incr	NO				Horz(CT)	0.06	6	n/a	n/a				
BCDL	10.0			Code IBC2018/TPI2014		Matrix-MS								Weight: 101 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
11-12: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-2-11 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-7 oc bracing.

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=-298(LC 10)
Max Uplift 11=-30(LC 10), 6=-29(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-949/528, 1-2=-2287/1184, 2-3=-2287/1184, 3-4=-2314/1190, 4-5=-2314/1190,
5-6=-951/530
BOT CHORD 10-11=-611/623, 8-10=-1658/2987, 7-8=-1658/2987
WEBS 1-10=-1275/2319, 2-10=-398/310, 3-10=-738/598, 3-7=-711/585, 4-7=-406/318,
5-7=-1275/2350

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 11 and 29 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



February 15, 2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T22	Flat	2	1	I50215660
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:47 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy9311-rNr9qRlrXYTmZ89htyZsEnlbaUOz9kpC68jdZjzlHMU

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
- Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
- Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
- Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
- Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T22	Flat	2	1	I50215660
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:47 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy9311-rNr9qRlrXYTmZ89htyZsEnlbaUOz9kpC68jdZjzlHMU

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
- Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T22	Flat	2	1	I50215660
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:47 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93i1-rNr9qRlrXYTmZ89htyZsEnlbaUOz9kpC68jdZjzIHMU

LOAD CASE(S) Standard

- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

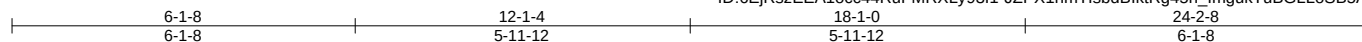
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215661
B212230-G01R	T23	Flat	2	1	Job Reference (optional)	

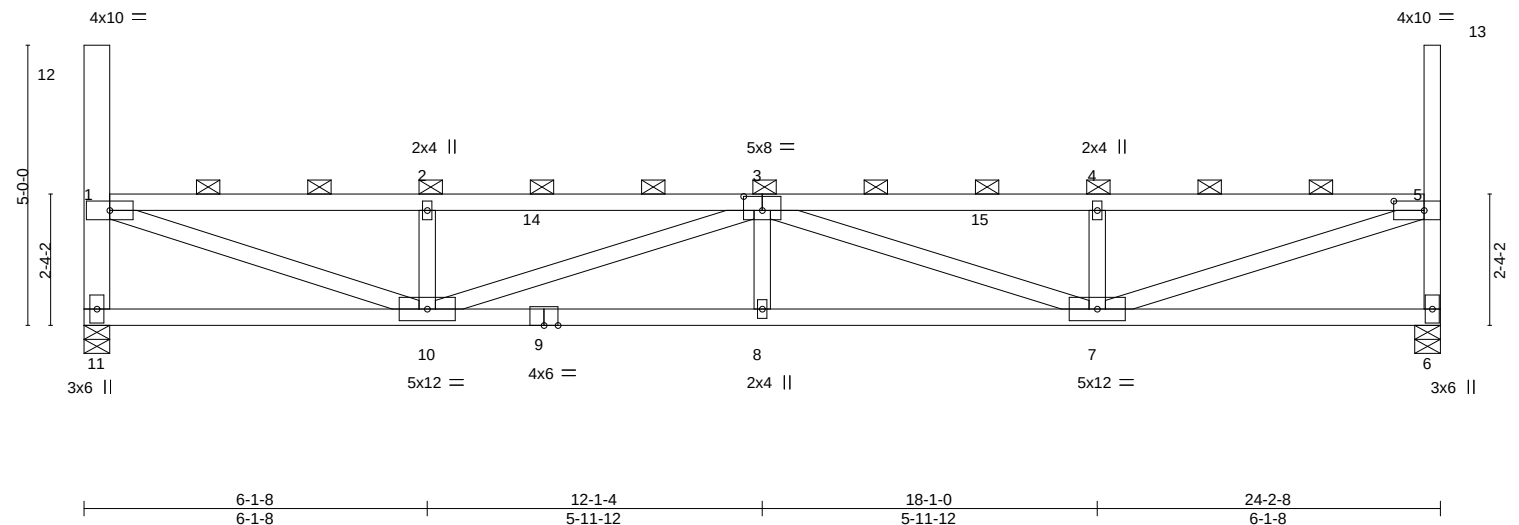
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:48 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLY93I1-JZPX1nmTIsbdBktRg45n_imgukTuBGLLoSB5AzIHMT



Scale = 1:41.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	0.22	8	>999	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.39	7-8	>728		
TCDL 10.0	Rep Stress Incr	NO	WB 0.86	Horz(CT)	0.06	6	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MS						
BCDL 10.0								Weight: 101 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (3-3-5 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-6-15 oc bracing.
WEBS 2x4 SPF No.2 *Except*	
11-12: 2x6 SPF 1650F 1.5E	

REACTIONS.	(size) 11=0-5-8, 6=0-5-8
	Max Horz 11=-295(LC 10)
	Max Uplift 11=-30(LC 10), 6=-29(LC 11)
	Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-11=-950/528, 1-2=-2242/1161, 2-3=-2242/1161, 3-4=-2268/1167, 4-5=-2268/1167, 5-6=-951/530
BOT CHORD	10-11=-601/611, 8-10=-1629/2927, 7-8=-1629/2927
WEBS	1-10=-1252/2279, 2-10=-399/310, 3-10=-725/586, 3-7=-697/573, 4-7=-406/318, 5-7=-1252/2310

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 11 and 29 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



February 15, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T23	Flat	2	1	I50215661
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:48 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-JZPX1nmTIsbdBiktRg45n_ImgukTuBGLLoSB5AzIHMT

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20
 - Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
 - 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
 - Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
 - 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
 - Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
 - Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
 - 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
 - Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
 - 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
 - Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
 - 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
 - Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
 - 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
 - Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
 - 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
 - Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
 - 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
 - Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
 - 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
 - Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
 - 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
 - Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
 - 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
 - Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
 - 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T23	Flat	2	1	I50215661
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:48 2022 Page 3
ID:6EjRsZEEA1occ44RuFMRXLy93I1-JZPX1nmTIsbdBiktRg45n_ImgukTuBGLLoSB5AzIHMT

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
- Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T23	Flat	2	1	I50215661
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLy93l1-JZPX1nmTIsbdBiktRg45n_ImgukTuBGLLoSB5AzIHMT

LOAD CASE(S) Standard

- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 14-15=-38, 6-11=-20
- Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 14-15=-38, 6-11=-20
- Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 14-15=-28, 6-11=-12
- Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 14-15=4, 6-11=-12
- Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

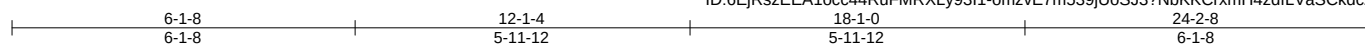
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215662
B212230-G01R	T24	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:49 2022 Page 1

ID:6EjRsZEEA1oc44RuFMRXLy9311-omzvE7m539jUoSJ3?NbKKCrXmH4zdfLVaScKdczHMS



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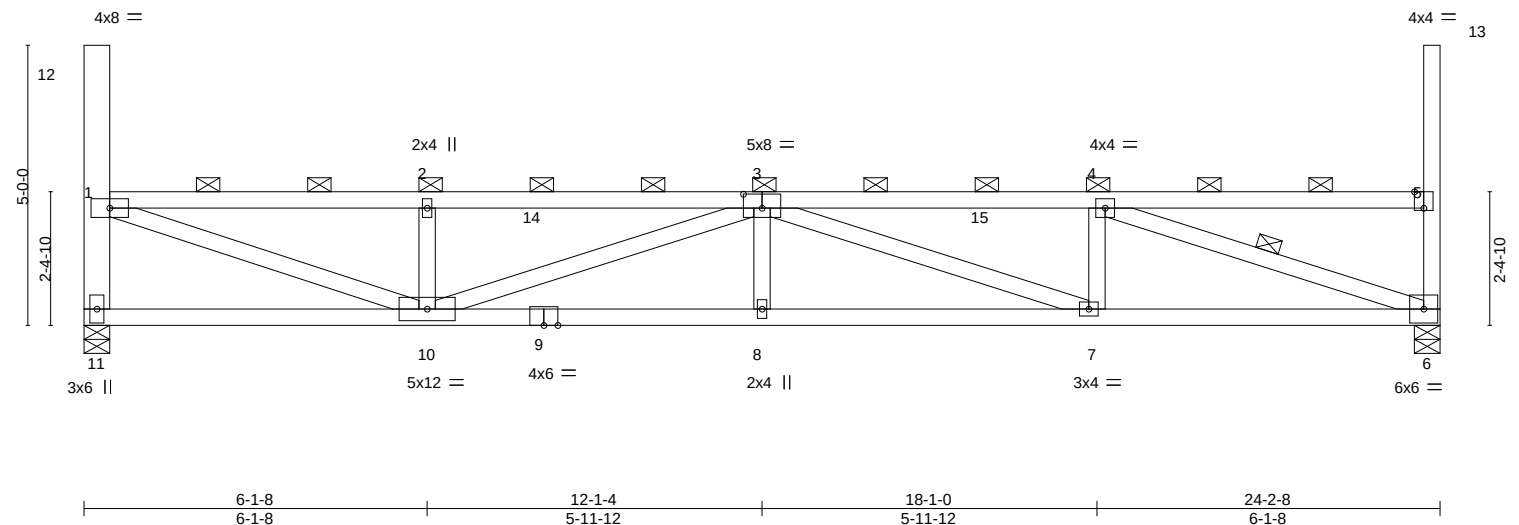


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-2-0,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.22	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.38	7-8	>758	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.08	6	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							Weight: 101 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
11-12: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-5-5 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-7 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=-293(LC 10)
Max Uplift 11=-30(LC 10), 6=-29(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

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

TOP CHORD 1-11=-950/528, 1-2=-2199/1138, 2-3=-2199/1138, 3-4=-2225/1146, 4-5=-369/303
BOT CHORD 10-11=-591/601, 8-10=-1601/2870, 7-8=-1601/2870, 6-7=-1069/2225
WEBS 1-10=-1230/2241, 2-10=-399/310, 3-10=-711/574, 3-7=-683/564, 4-7=-109/419,
4-6=-2272/1227

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 11 and 29 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15, 2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T24	Flat	2	1	I50215662
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:50 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-GyXHSTnjqTrLQcuGY56ZsPN5VhQCM6beo6xH92zIHMR

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T24	Flat	2	1	I50215662
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:50 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93l1-GyXHSTnjqTrLQcuGY56ZsPN5VhQCM6beo6xH92zIHMR

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T24	Flat	2	1	I50215662
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:50 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93l1-GyXHSTnjqTrLQcuGY56ZsPN5VhQCM6beo6xH92zIHMR

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

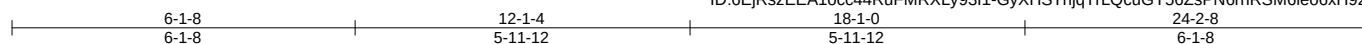
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215663
B212230-G01R	T25	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:50 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLY9311-GyXHSTnjqTrLQcuGY56ZsPN6rhRSM6le06xH92zIHMR



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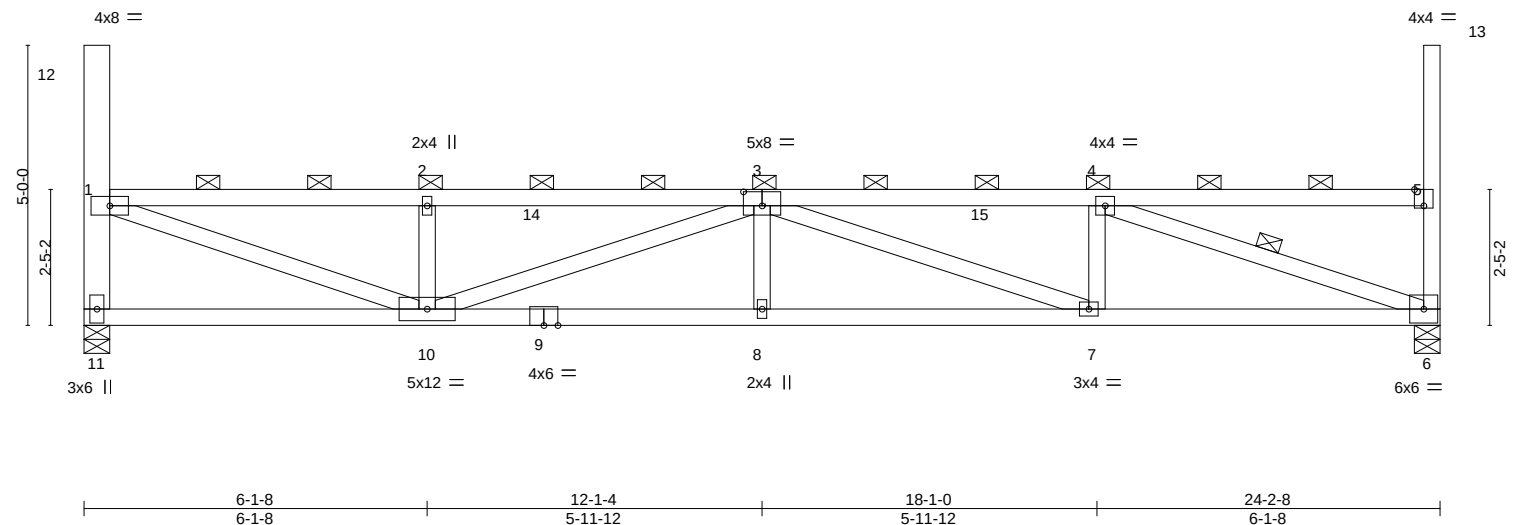


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-2-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0		TC	0.64	in (loc)	l/defl	L/d	GRIP
Snow (Pf/Pg)	18.9/20.0	Plate Grip DOL	1.15	BC	0.83	0.21	8	>999	240
TCDL	10.0	Lumber DOL	1.15	WB	0.79	Vert(CT)	-0.36	7-8	>786
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-MS		Horz(CT)	0.08	6	n/a
BCDL	10.0	Code IBC2018/TPI2014							
								Weight: 102 lb FT = 20%	

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
11-12: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-13 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-15 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-291(LC 10)
Max Uplift 11=-30(LC 10), 6=-29(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-950/527, 1-2=-2157/1116, 2-3=-2157/1116, 3-4=-2182/1124, 4-5=-359/296
BOT CHORD 10-11=-581/590, 8-10=-1574/2814, 7-8=-1574/2814, 6-7=-1053/2182
WEBS 1-10=-1209/2204, 2-10=-400/310, 3-10=-698/563, 3-7=-671/553, 4-7=-108/419,
4-6=-2235/1206

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 11 and 29 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15, 2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T25	Flat	2	1	I50215663
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:51 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy93l1-k85ffpoLanzB2mTS6oeoPdwHb5ng5Z?o1mhriUzIHMq

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T25	Flat	2	1	I50215663
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:51 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93l1-k85ffpoLanzB2mTS6oeoPdwHb5ng5Z?o1mhriUzIHMq

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T25	Flat	2	1	I50215663
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:51 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93I1-k85ffpoLanzB2mTS6oeoPdwHb5ng5Z?o1mhriUzIHMQ

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

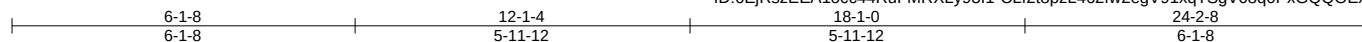
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215664
B212230-G01R	T26	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:52 2022 Page 1

ID:6EjRszEEA10cc44RuFMRXly93l1-CLf2t8pzL462fw2egV91xqTSgV68q0PxGQQOEzIHMP



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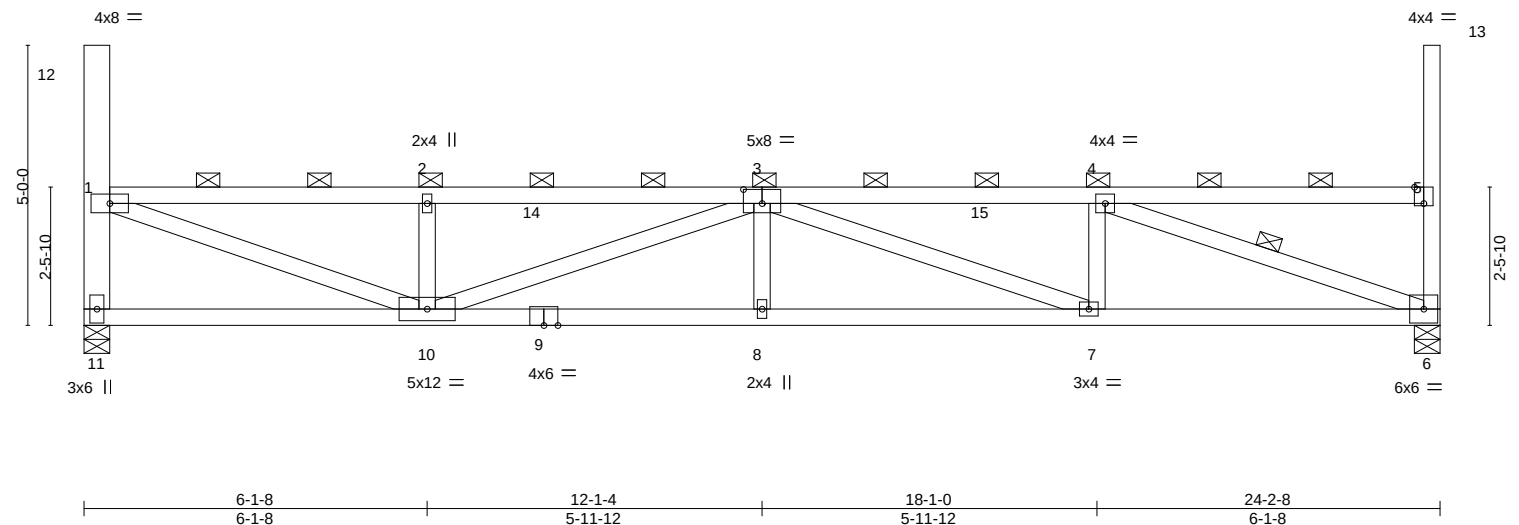


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-2-0,Edge]															
LOADING (psf)			SPACING- 2-0-0			CSI.			DEFL. in (loc) l/defl L/d			PLATES		GRIP	
TCLL (roof)	20.0		Plate Grip DOL	1.15		TC	0.62		Vert(LL)	0.20	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0		Lumber DOL	1.15		BC	0.81		Vert(CT)	-0.35	7-8	>814	180		
TCDL	10.0		Rep Stress Incr	NO		WB	0.78		Horz(CT)	0.08	6	n/a	n/a		
BCLL	0.0	*	Code IBC2018/TPI2014			Matrix-MS								Weight: 102 lb	FT = 20%
BCDL	10.0														

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
11-12: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-6-5 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-7 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=-289(LC 10)
Max Uplift 11=-30(LC 10), 6=-28(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

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

TOP CHORD 1-11=-951/527, 1-2=-2117/1095, 2-3=-2117/1095, 3-4=-2142/1103, 4-5=-350/290
BOT CHORD 10-11=-571/580, 8-10=-1548/2761, 7-8=-1548/2761, 6-7=-1038/2142
WEBS 1-10=-1188/2169, 2-10=-400/310, 3-10=-686/552, 3-7=-659/543, 4-7=-108/420,
4-6=-2199/1185

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 11 and 28 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15, 2022

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T26	Flat	2	1	I50215664
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:52 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-CLf2t8pzL462fw2egV91xqTSgV68q0PxGQQOExzIHMP

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T26	Flat	2	1	I50215664
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:52 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93l1-CLf2t8pzL462fw2egV91xqTSgV68q0PxGQQOExzIHMP

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T26	Flat	2	1	I50215664
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:52 2022 Page 4
ID:6EjRsZEEA1occ44RuFMRXLy93l1-CLf2t8pzL462fw2egV91xqTSgV68q0PxGQQOEzIHMP

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

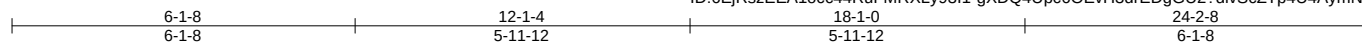
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215665
B212230-G01R	T27	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:53 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy9311-gXDQ4UpC6OEvh3drEdgGU2?dlvScZTp4U4AymNzlHMO



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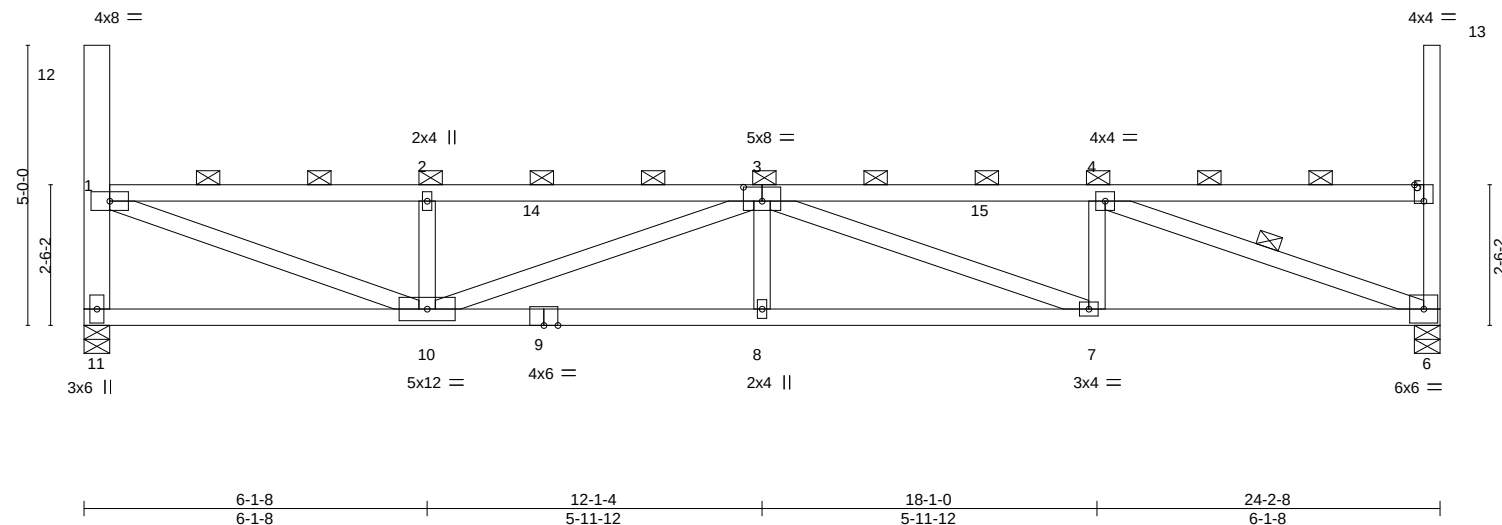


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-2-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0		TC	0.59	in (loc)	l/defl	L/d	MT20
Snow (Pf/Pg)	18.9/20.0	Plate Grip DOL	1.15	BC	0.80	0.20	8	>999	197/144
TCDL	10.0	Lumber DOL	1.15	WB	0.77	Vert(LL)	-0.34	7-8	>843
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-MS		Vert(CT)	0.07	6	n/a
BCDL	10.0	Code IBC2018/TPI2014				Horz(CT)	0.07	6	n/a
								Weight: 102 lb FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
11-12: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-6-13 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-15 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=-287(LC 10)
Max Uplift 11=-29(LC 10), 6=-28(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-951/527, 1-2=-2078/1075, 2-3=-2078/1075, 3-4=-2102/1083, 4-5=-341/284
BOT CHORD 10-11=-562/570, 8-10=-1523/2710, 7-8=-1523/2710, 6-7=-1023/2102
WEBS 1-10=-1168/2134, 2-10=-400/311, 3-10=-674/542, 3-7=-648/533, 4-7=-108/420,
4-6=-2164/1166

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 11 and 28 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15, 2022

Continued on page 2

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

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T27	Flat	2	1	I50215665
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:53 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy9311-gXDQ4Up6OEvhH3drEDgGU2?dlvScZTp4U4AymNzlHMO

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
- Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
- Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
- Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
- Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T27	Flat	2	1	I50215665
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:53 2022 Page 3
ID:6EjRsZEEA1occ44RuFMRXLy9311-gXDQ4Upc6OEvh3drEDgGU2?dlvScZTp4U4AymNzlHMO

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T27	Flat	2	1	I50215665
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:53 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy9311-gXDQ4Upc6OEvh3drEDgGU2?dlvScZTp4U4AymNzlHMO

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

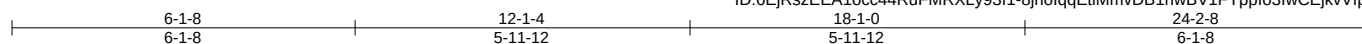
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215666
B212230-G01R	T28	Flat	2	1	Job Reference (optional)	

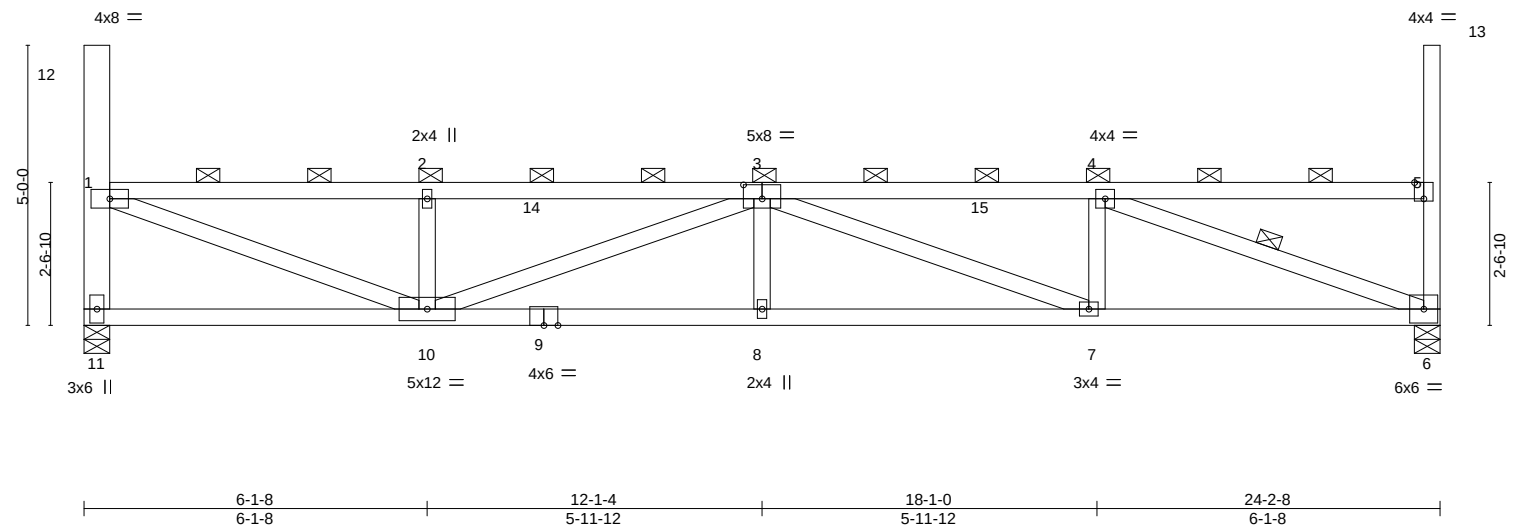
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:54 2022 Page 1

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Scale = 1:41.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	in (loc)	l/defl	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(LL)	8 >999				
TCDL	10.0	Rep Stress Incr	NO	WB	0.76	Vert(CT)	-0.33 7-8 >872				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Horz(CT)	0.07 6 n/a				
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-7-5 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-9-7 oc bracing.
WEBS	2x4 SPF No.2 *Except*	WEBS	1 Row at midpt 4-6
	11-12: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 11=0-5-8, 6=0-5-8
 Max Horz 11=284(LC 11)
 Max Uplift 11=-29(LC 10), 6=-28(LC 11)
 Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-11=-951/527, 1-2=-2040/1056, 2-3=-2040/1056, 3-4=-2064/1063, 4-5=-333/277
 BOT CHORD 10-11=-553/560, 8-10=-1498/2661, 7-8=-1498/2661, 6-7=-1009/2064
 WEBS 1-10=-1149/2101, 2-10=-401/311, 3-10=-663/532, 3-7=-637/523, 4-7=-107/420, 4-6=-2131/1147

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 11 and 28 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 14-15=-58, 6-11=-20



February 15, 2022

Continued on page 2

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

MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T28	Flat	2	1	I50215666
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:54 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-8jnoIqqEtiMmvDB1nwBV1FYpplo3IwCEjKVlpzIHMN

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T28	Flat	2	1	I50215666
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:54 2022 Page 3
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LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T28	Flat	2	1	I50215666
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:54 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93I1-8jnoIqqEtiMmvDB1nwBV1FYppl03IwCEjKvVlpzIHMN

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215667
B212230-G01R	T29	Flat	2	1	Job Reference (optional)	

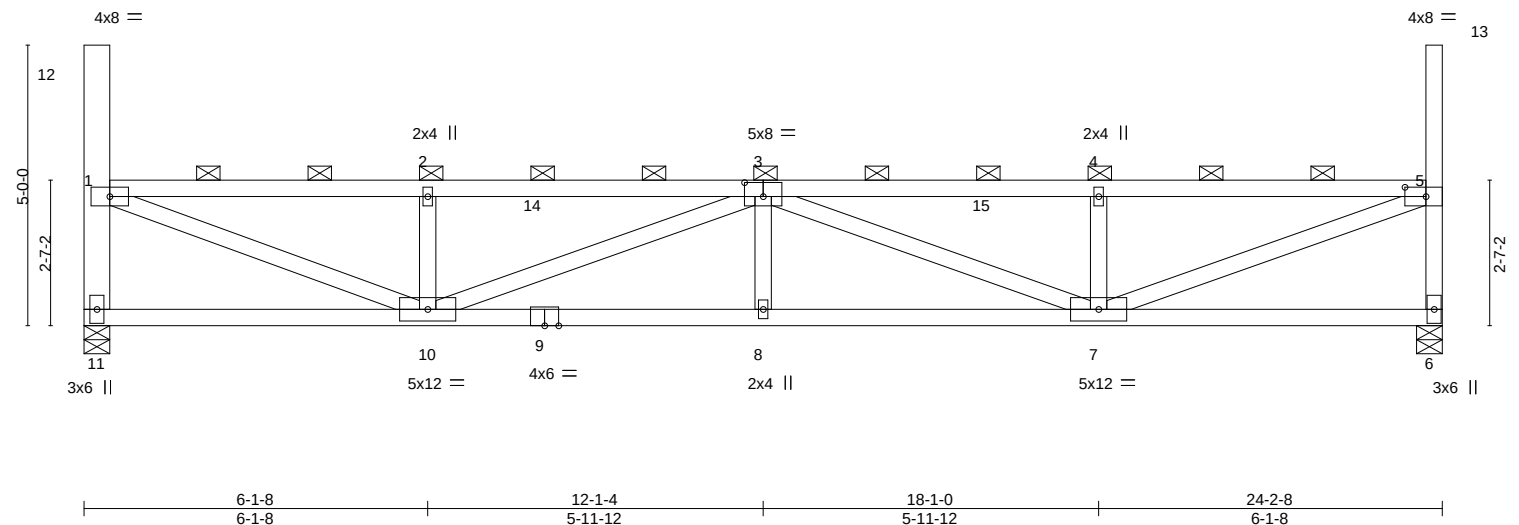
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:55 2022 Page 1

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6-1-8	12-1-4	18-1-0	24-2-8
6-1-8	5-11-12	5-11-12	6-1-8

Scale = 1:41.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	0.18	8	>999	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.32	7-8	>898	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.79	Horz(CT)	0.05	6	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MS						Weight: 102 lb	FT = 20%
BCDL 10.0										

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
11-12: 2x6 SPF 1650F 1.5E

BRACING-
TOP CHORD 2-0-0 oc purlins (3-6-6 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-14 oc bracing.

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-282(LC 10)
Max Uplift 11=-29(LC 10), 6=-28(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-952/526, 1-2=-2004/1037, 2-3=-2004/1037, 3-4=-2027/1043, 4-5=-2027/1043, 5-6=-953/528
BOT CHORD 10-11=-544/551, 8-10=-1474/2613, 7-8=-1474/2613
WEBS 1-10=-1131/2070, 2-10=-401/311, 3-10=-653/523, 3-7=-628/513, 4-7=-409/318, 5-7=-1131/2097

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 11 and 28 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



February 15, 2022

Continued on page 2

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

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T29	Flat	2	1	I50215667
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLy9311-cwKAVArse?UdWNmDLeikZT5zGi8W1M_NyOf2rGzIHMM

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20
 - Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
 - 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
 - Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
 - 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
 - Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
 - Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
 - 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
 - Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
 - 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
 - Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
 - 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
 - Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
 - 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
 - Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
 - 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
 - Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
 - 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
 - Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
 - 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
 - Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
 - 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
 - Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
 - 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
 - Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
 - 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T29	Flat	2	1	I50215667
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:55 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy9311-cwKAVArse?UdWNmDLeikZT5zGi8W1M_NyOf2rGzIHMM

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
- Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=-37
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T29	Flat	2	1	I50215667
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:55 2022 Page 4
ID:6EjRsZEEA1occ44RuFMRXLy93i1-cwKAVArse?UdWNmDLeikZT5zGi8W1M_NyOf2rGzIHMM

LOAD CASE(S) Standard

- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 14-15=-38, 6-11=-20
- Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 14-15=-38, 6-11=-20
- Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 14-15=-28, 6-11=-12
- Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 14-15=4, 6-11=-12
- Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

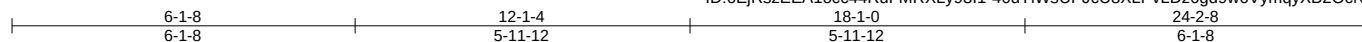
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215668
B212230-G01R	T30	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:56 2022 Page 1

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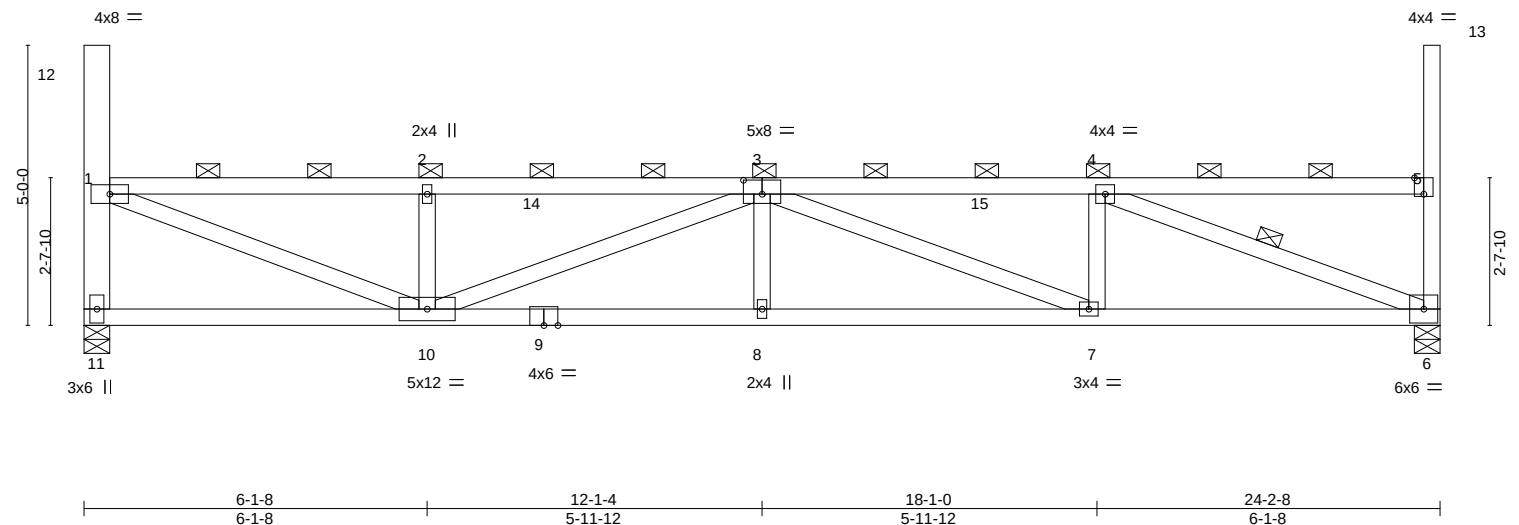


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-2-0,Edge]													
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.18	8	>999	240		MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.31	7-8	>931	180			
TCDL	10.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.07	6	n/a	n/a			
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS								Weight: 103 lb	FT = 20%
BCDL	10.0												

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
11-12: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-8-4 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-6 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=-280(LC 10)
Max Uplift 11=-29(LC 10), 6=-27(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

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

TOP CHORD 1-11=-952/526, 1-2=-1969/1019, 2-3=-1969/1019, 3-4=-1993/1026, 4-5=-317/266
BOT CHORD 10-11=-535/542, 8-10=-1451/2567, 7-8=-1451/2567, 6-7=-981/1993
WEBS 1-10=-1113/2039, 2-10=-401/311, 3-10=-642/514, 3-7=-617/505, 4-7=-106/420,
4-6=-2067/1112

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 11 and 27 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15, 2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T30	Flat	2	1	I50215668
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:56 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy9311-46uYiWsUPJcU8XLPvLDz6gd9w6VymqyXB2OcNizHML

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T30	Flat	2	1	I50215668
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:56 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93I1-46uYiWsUPJcU8XLPvLDz6gd9w6VymqyXB2OcNizHML

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T30	Flat	2	1	I50215668
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:56 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy9311-46uYiWsUPJcU8XLPvLDz6gd9w6VymqyXB2OcNizIHML

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

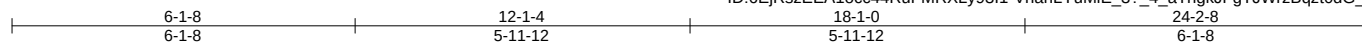
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215669
B212230-G01R	T31	Flat	2	1	Job Reference (optional)	

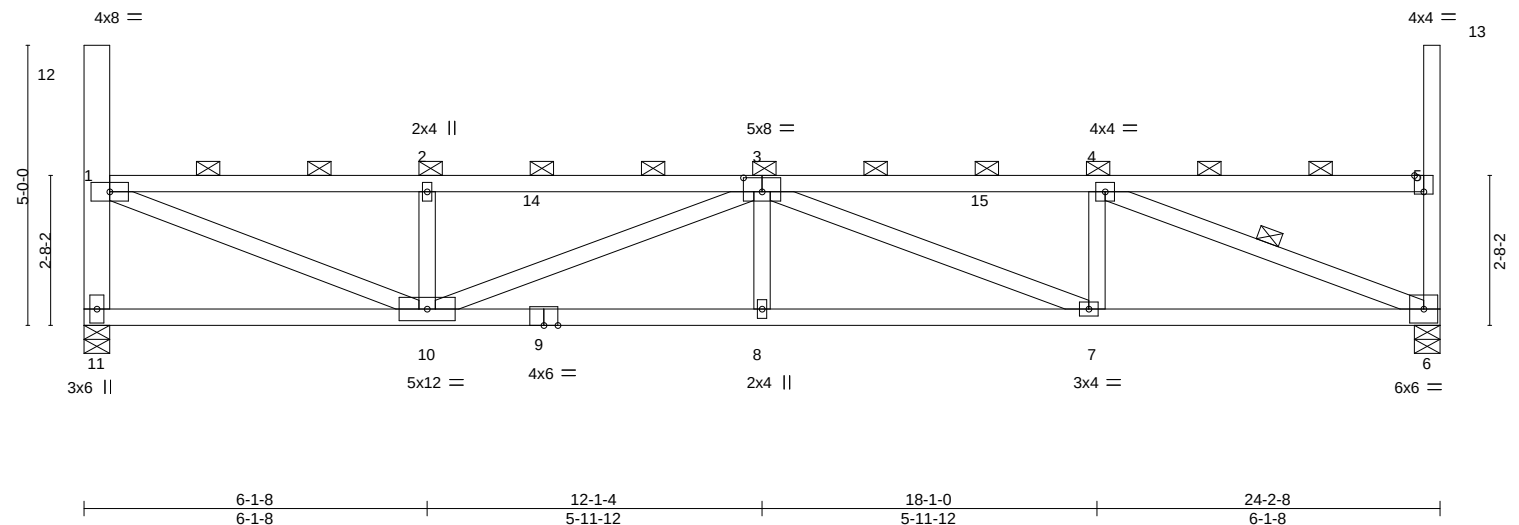
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:12:59 2022 Page 1

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Scale = 1:41.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	0.17	8	>999	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.30	7-8	>962	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.74	Horz(CT)	0.07	6	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MS							
BCDL 10.0									Weight: 103 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
11-12: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-8-12 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-13 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=-278(LC 10)
Max Uplift 11=-28(LC 10), 6=-27(LC 11)
Max Grav 11=1012(LC 2), 6=1013(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-952/526, 1-2=-1935/1002, 2-3=-1935/1002, 3-4=-1958/1009, 4-5=-309/260
BOT CHORD 10-11=-527/533, 8-10=-1429/2523, 7-8=-1429/2523, 6-7=-968/1958
WEBS 1-10=-1096/2010, 2-10=-401/311, 3-10=-632/505, 3-7=-608/496, 4-7=-106/421,
4-6=-2038/1095

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 11 and 27 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15, 2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T31	Flat	2	1	I50215669
					Job Reference (optional)

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ID:6EjRsZEEA1occ44RuFMRXLy93I1-VhahLYuMiE_3?_4_aTngkJFgTJWrzBqzt0dG_1ziHMI

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T31	Flat	2	1	I50215669
					Job Reference (optional)

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ID:6EjRszEEA1occ44RuFMRXly93l1-VhahLYuMiE_3?_4_aTngkJFgTJWrzBqzt0dG_1ziHMI

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T31	Flat	2	1	I50215669
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLy93l1-VhahLYuMiE_3?_4_aTngkJFgTJWrzBqzt0dG_1ziHMI

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

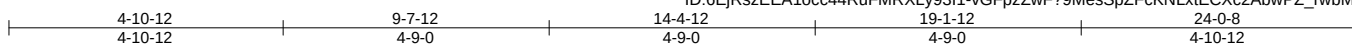
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215670
B212230-G01R	T32	Flat Girder	4	2	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRLy93l1-vGFpzZwF?9MesSpZFcKLNxtECXc2AbwPZ_rwbMzIHMF



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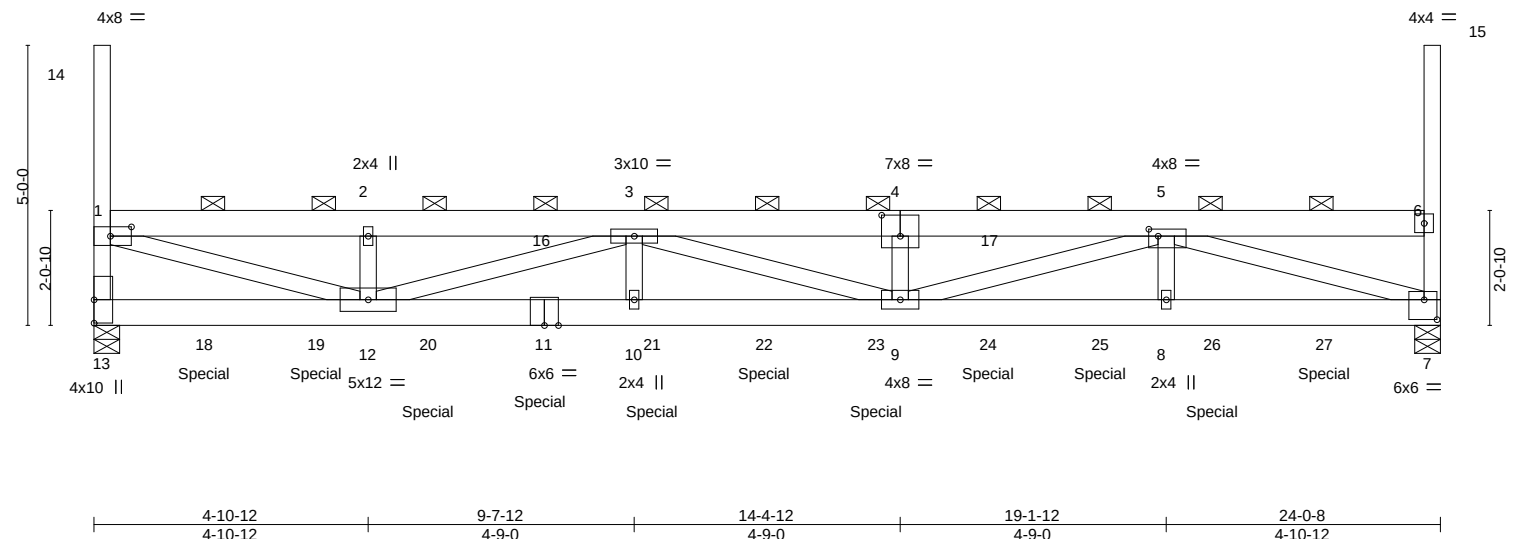


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [4:0-4-0,0-4-8], [5:0-2-0,0-1-8], [7:0-2-12,0-4-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.39 9-10	>737	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.36 9-10	>794	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	-0.06 7	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS						Weight: 254 lb	FT = 20%
BCDL	10.0										

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-14, 1-6, 6-15, except end verticals.
BOT CHORD 2x6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 7-9-12 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 13=0-5-8, 7=0-5-8
 Max Horz 13=-313(LC 6)
 Max Uplift 13=-1572(LC 6), 7=-1517(LC 7)
 Max Grav 13=1988(LC 47), 7=2026(LC 46)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-13=-1742/1385, 1-2=-5033/4102, 2-3=-5033/4102, 3-4=-7393/6003, 4-5=-7393/6003, 5-6=-489/359
 BOT CHORD 12-13=-544/599, 10-12=-5986/7457, 9-10=-5986/7457, 8-9=-3946/4947, 7-8=-3946/4947
 WEBS 1-12=-3952/4932, 2-12=-286/176, 3-12=-2664/2168, 3-10=-579/719, 4-9=-278/91, 5-9=-2213/2624, 5-8=-587/733, 5-7=-4986/3902

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1572 lb uplift at joint 13 and 1517 lb uplift at joint 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

2D/3D graphical representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 15, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T32	Flat Girder	4	2	I50215670
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXly93l1-vGFpzZwF?9MesSpZFcKNLxtECXc2AbwPZ_rwbMzIHMF

NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 276 lb down and 278 lb up at 1-11-12, 276 lb down and 278 lb up at 3-11-12, 276 lb down and 278 lb up at 5-11-12, 276 lb down and 278 lb up at 7-11-12, 276 lb down and 278 lb up at 9-11-12, 276 lb down and 278 lb up at 11-11-12, 276 lb down and 278 lb up at 13-11-12, 276 lb down and 278 lb up at 15-11-12, 276 lb down and 278 lb up at 17-11-12, and 276 lb down and 278 lb up at 19-11-12, and 276 lb down and 278 lb up at 21-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 16-17=-58, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-67(B) 18=-67(B) 19=-67(B) 20=-67(B) 21=-67(B) 22=-67(B) 23=-67(B) 24=-67(B) 25=-67(B) 26=-67(B) 27=-67(B)
Trapezoidal Loads (plf)
Vert: 1=-73-to-16=-58, 17=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-17=-60, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B)
Trapezoidal Loads (plf)
Vert: 17=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-17=-50, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-54(B) 18=-54(B) 19=-54(B) 20=-54(B) 21=-54(B) 22=-54(B) 23=-54(B) 24=-54(B) 25=-54(B) 26=-54(B) 27=-54(B)
Trapezoidal Loads (plf)
Vert: 17=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 16-17=-48, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-56(B) 18=-56(B) 19=-56(B) 20=-56(B) 21=-56(B) 22=-56(B) 23=-56(B) 24=-56(B) 25=-56(B) 26=-56(B) 27=-56(B)
Trapezoidal Loads (plf)
Vert: 1=-60-to-16=-48, 17=-48-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-17=-20, 7-13=-40
Concentrated Loads (lb)
Vert: 11=-24(B) 18=-24(B) 19=-24(B) 20=-24(B) 21=-24(B) 22=-24(B) 23=-24(B) 24=-24(B) 25=-24(B) 26=-24(B) 27=-24(B)
Trapezoidal Loads (plf)
Vert: 17=-20-to-6=-35
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=12, 1-14=50, 6-7=18, 6-15=33
Concentrated Loads (lb)
Vert: 11=270(B) 18=270(B) 19=270(B) 20=270(B) 21=270(B) 22=270(B) 23=270(B) 24=270(B) 25=270(B) 26=270(B) 27=270(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=-18, 1-14=-33, 6-7=-12, 6-15=50
Concentrated Loads (lb)
Vert: 11=270(B) 18=270(B) 19=270(B) 20=270(B) 21=270(B) 22=270(B) 23=270(B) 24=270(B) 25=270(B) 26=270(B) 27=270(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1
- 8) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=24, 1-14=50, 6-7=6, 6-15=33
Concentrated Loads (lb)
Vert: 11=278(B) 18=278(B) 19=278(B) 20=278(B) 21=278(B) 22=278(B) 23=278(B) 24=278(B) 25=278(B) 26=278(B) 27=278(B)
Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18
- 9) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=-6, 1-14=-33, 6-7=-24, 6-15=-50
Concentrated Loads (lb)
Vert: 11=278(B) 18=278(B) 19=278(B) 20=278(B) 21=278(B) 22=278(B) 23=278(B) 24=278(B) 25=278(B) 26=278(B) 27=278(B)
Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T32	Flat Girder	4	2	IS0215670
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:02 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXly93l1-vGFpzZwF?9MesSpZFcKNLxtECXc2AbwPZ_rwbMzIHMF

LOAD CASE(S) Standard

- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=7, 1-14=-33, 6-7=15, 6-15=33
Concentrated Loads (lb)
Vert: 11=270(B) 18=270(B) 19=270(B) 20=270(B) 21=270(B) 22=270(B) 23=270(B) 24=270(B) 25=270(B) 26=270(B) 27=270(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=-15, 1-14=-33, 6-7=-7, 6-15=33
Concentrated Loads (lb)
Vert: 11=270(B) 18=270(B) 19=270(B) 20=270(B) 21=270(B) 22=270(B) 23=270(B) 24=270(B) 25=270(B) 26=270(B) 27=270(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=7, 1-14=-33, 6-7=15, 6-15=33
Concentrated Loads (lb)
Vert: 11=270(B) 18=270(B) 19=270(B) 20=270(B) 21=270(B) 22=270(B) 23=270(B) 24=270(B) 25=270(B) 26=270(B) 27=270(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=-15, 1-14=-33, 6-7=-7, 6-15=33
Concentrated Loads (lb)
Vert: 11=270(B) 18=270(B) 19=270(B) 20=270(B) 21=270(B) 22=270(B) 23=270(B) 24=270(B) 25=270(B) 26=270(B) 27=270(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=19, 1-14=-33, 6-7=4, 6-15=33
Concentrated Loads (lb)
Vert: 11=278(B) 18=278(B) 19=278(B) 20=278(B) 21=278(B) 22=278(B) 23=278(B) 24=278(B) 25=278(B) 26=278(B) 27=278(B)
Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=-4, 1-14=-33, 6-7=-19, 6-15=33
Concentrated Loads (lb)
Vert: 11=278(B) 18=278(B) 19=278(B) 20=278(B) 21=278(B) 22=278(B) 23=278(B) 24=278(B) 25=278(B) 26=278(B) 27=278(B)
Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18
- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-17=-20, 7-13=-20
Concentrated Loads (lb)
Vert: 11=-23(B) 18=-23(B) 19=-23(B) 20=-23(B) 21=-23(B) 22=-23(B) 23=-23(B) 24=-23(B) 25=-23(B) 26=-23(B) 27=-23(B)
Trapezoidal Loads (plf)
Vert: 17=-20-to-6=-35
- 17) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=18, 1-14=37, 6-7=5, 6-15=25
Concentrated Loads (lb)
Vert: 11=190(B) 18=190(B) 19=190(B) 20=190(B) 21=190(B) 22=190(B) 23=190(B) 24=190(B) 25=190(B) 26=190(B) 27=190(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51
- 18) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=-5, 1-14=-25, 6-7=-18, 6-15=-37
Concentrated Loads (lb)
Vert: 11=190(B) 18=190(B) 19=190(B) 20=190(B) 21=190(B) 22=190(B) 23=190(B) 24=190(B) 25=190(B) 26=190(B) 27=190(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T32	Flat Girder	4	2	I50215670
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:02 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXly93l1-vGFpzZwF?9MesSpZFcKNLxtECXc2AbwPZ_rwbMzIHMF

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=14, 1-14=-25, 6-7=3, 6-15=25
- Concentrated Loads (lb)
Vert: 11=190(B) 18=190(B) 19=190(B) 20=190(B) 21=190(B) 22=190(B) 23=190(B) 24=190(B) 25=190(B) 26=190(B) 27=190(B)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=-3, 1-14=-25, 6-7=-14, 6-15=25
- Concentrated Loads (lb)
Vert: 11=190(B) 18=190(B) 19=190(B) 20=190(B) 21=190(B) 22=190(B) 23=190(B) 24=190(B) 25=190(B) 26=190(B) 27=190(B)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=18, 1-14=37, 6-7=5, 6-15=25
- Concentrated Loads (lb)
Vert: 11=183(B) 18=183(B) 19=183(B) 20=183(B) 21=183(B) 22=183(B) 23=183(B) 24=183(B) 25=183(B) 26=183(B) 27=183(B)
- Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=-5, 1-14=-25, 6-7=-18, 6-15=37
- Concentrated Loads (lb)
Vert: 11=183(B) 18=183(B) 19=183(B) 20=183(B) 21=183(B) 22=183(B) 23=183(B) 24=183(B) 25=183(B) 26=183(B) 27=183(B)
- Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53
- 23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=14, 1-14=-25, 6-7=3, 6-15=25
- Concentrated Loads (lb)
Vert: 11=183(B) 18=183(B) 19=183(B) 20=183(B) 21=183(B) 22=183(B) 23=183(B) 24=183(B) 25=183(B) 26=183(B) 27=183(B)
- Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53
- 24) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=-3, 1-14=-25, 6-7=-14, 6-15=25
- Concentrated Loads (lb)
Vert: 11=183(B) 18=183(B) 19=183(B) 20=183(B) 21=183(B) 22=183(B) 23=183(B) 24=183(B) 25=183(B) 26=183(B) 27=183(B)
- Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53
- 25) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 16-17=-60, 7-13=-20
- Concentrated Loads (lb)
Vert: 11=-67(B) 18=-67(B) 19=-67(B) 20=-67(B) 21=-67(B) 22=-67(B) 23=-67(B) 24=-67(B) 25=-67(B) 26=-67(B) 27=-67(B)
- Trapezoidal Loads (plf)
Vert: 1=-75-to-16=-60, 17=-60-to-6=-75
- 26) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-17=-12, 7-13=-12
Horz: 1-13=16, 1-14=16
- Concentrated Loads (lb)
Vert: 11=264(B) 18=264(B) 19=264(B) 20=264(B) 21=264(B) 22=264(B) 23=264(B) 24=264(B) 25=264(B) 26=264(B) 27=264(B)
- Trapezoidal Loads (plf)
Vert: 17=-12-to-6=-27
- 27) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-17=-12, 7-13=-12
Horz: 6-7=-16, 6-15=-16
- Concentrated Loads (lb)
Vert: 11=264(B) 18=264(B) 19=264(B) 20=264(B) 21=264(B) 22=264(B) 23=264(B) 24=264(B) 25=264(B) 26=264(B) 27=264(B)
- Trapezoidal Loads (plf)
Vert: 17=-12-to-6=-27
- 28) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-17=-60, 7-13=-20

Continued on page 5

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T32	Flat Girder	4	2	I50215670
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:02 2022 Page 5
ID:6EjRszEEA1occ44RuFMRLy93l1-vGFpzZwF?9MesSpZFcKNLxtECXc2AbwPZ_rwbMzIHMF

- LOAD CASE(S)** Standard
- Concentrated Loads (lb)
Vert: 11=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B)
- Trapezoidal Loads (plf)
Vert: 17=-60-to-6=-75
- 29) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-17=-60, 7-13=-20
- Concentrated Loads (lb)
Vert: 11=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B)
- Trapezoidal Loads (plf)
Vert: 17=-60-to-6=-75
- 30) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-17=-50, 7-13=-20
- Concentrated Loads (lb)
Vert: 11=-54(B) 18=-54(B) 19=-54(B) 20=-54(B) 21=-54(B) 22=-54(B) 23=-54(B) 24=-54(B) 25=-54(B) 26=-54(B) 27=-54(B)
- Trapezoidal Loads (plf)
Vert: 17=-50-to-6=-65
- 31) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-17=-50, 7-13=-20
- Concentrated Loads (lb)
Vert: 11=-54(B) 18=-54(B) 19=-54(B) 20=-54(B) 21=-54(B) 22=-54(B) 23=-54(B) 24=-54(B) 25=-54(B) 26=-54(B) 27=-54(B)
- Trapezoidal Loads (plf)
Vert: 17=-50-to-6=-65
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=12, 1-14=50, 6-7=18, 6-15=33
- Concentrated Loads (lb)
Vert: 11=-276(B) 18=-276(B) 19=-276(B) 20=-276(B) 21=-276(B) 22=-276(B) 23=-276(B) 24=-276(B) 25=-276(B) 26=-276(B) 27=-276(B)
- Trapezoidal Loads (plf)
Vert: 17=16-to-6=1
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=-18, 1-14=-33, 6-7=-12, 6-15=-50
- Concentrated Loads (lb)
Vert: 11=-276(B) 18=-276(B) 19=-276(B) 20=-276(B) 21=-276(B) 22=-276(B) 23=-276(B) 24=-276(B) 25=-276(B) 26=-276(B) 27=-276(B)
- Trapezoidal Loads (plf)
Vert: 17=16-to-6=1
- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=24, 1-14=50, 6-7=6, 6-15=33
- Concentrated Loads (lb)
Vert: 11=-268(B) 18=-268(B) 19=-268(B) 20=-268(B) 21=-268(B) 22=-268(B) 23=-268(B) 24=-268(B) 25=-268(B) 26=-268(B) 27=-268(B)
- Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18
- 35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=-6, 1-14=-33, 6-7=-24, 6-15=-50
- Concentrated Loads (lb)
Vert: 11=-268(B) 18=-268(B) 19=-268(B) 20=-268(B) 21=-268(B) 22=-268(B) 23=-268(B) 24=-268(B) 25=-268(B)
26=-268(B) 27=-268(B)
- Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18
- 36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=7, 1-14=-33, 6-7=15, 6-15=33
- Concentrated Loads (lb)
Vert: 11=-276(B) 18=-276(B) 19=-276(B) 20=-276(B) 21=-276(B) 22=-276(B) 23=-276(B) 24=-276(B) 25=-276(B)
26=-276(B) 27=-276(B)
- Trapezoidal Loads (plf)
Vert: 17=16-to-6=1
- 37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=-15, 1-14=-33, 6-7=-7, 6-15=33
- Concentrated Loads (lb)
Vert: 11=-276(B) 18=-276(B) 19=-276(B) 20=-276(B) 21=-276(B) 22=-276(B) 23=-276(B) 24=-276(B) 25=-276(B)
26=-276(B) 27=-276(B)
- Trapezoidal Loads (plf)
Vert: 17=16-to-6=1

Continued on page 6

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T32	Flat Girder	4	2	I50215670
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:02 2022 Page 6
ID:6EjRszEEA1occ44RuFMRXLy93l1-vGFpzZwF?9MesSpZFcKNLxtECXc2AbwPZ_rwbMzIHMF

LOAD CASE(S) Standard

- 38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=7, 1-14=-33, 6-7=15, 6-15=33
Concentrated Loads (lb)
Vert: 11=-276(B) 18=-276(B) 19=-276(B) 20=-276(B) 21=-276(B) 22=-276(B) 23=-276(B) 24=-276(B) 25=-276(B) 26=-276(B) 27=-276(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1
- 39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=16, 7-13=-12
Horz: 1-13=-15, 1-14=-33, 6-7=-7, 6-15=33
Concentrated Loads (lb)
Vert: 11=-276(B) 18=-276(B) 19=-276(B) 20=-276(B) 21=-276(B) 22=-276(B) 23=-276(B) 24=-276(B) 25=-276(B) 26=-276(B) 27=-276(B)
Trapezoidal Loads (plf)
Vert: 17=16-to-6=1
- 40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=19, 1-14=-33, 6-7=4, 6-15=33
Concentrated Loads (lb)
Vert: 11=-268(B) 18=-268(B) 19=-268(B) 20=-268(B) 21=-268(B) 22=-268(B) 23=-268(B) 24=-268(B) 25=-268(B) 26=-268(B) 27=-268(B)
Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18
- 41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-3, 7-13=-20
Horz: 1-13=-4, 1-14=-33, 6-7=-19, 6-15=33
Concentrated Loads (lb)
Vert: 11=-268(B) 18=-268(B) 19=-268(B) 20=-268(B) 21=-268(B) 22=-268(B) 23=-268(B) 24=-268(B) 25=-268(B) 26=-268(B) 27=-268(B)
Trapezoidal Loads (plf)
Vert: 17=-3-to-6=-18
- 42) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=18, 1-14=37, 6-7=5, 6-15=25
Concentrated Loads (lb)
Vert: 11=-224(B) 18=-224(B) 19=-224(B) 20=-224(B) 21=-224(B) 22=-224(B) 23=-224(B) 24=-224(B) 25=-224(B) 26=-224(B) 27=-224(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51
- 43) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=-5, 1-14=-25, 6-7=-18, 6-15=37
Concentrated Loads (lb)
Vert: 11=-224(B) 18=-224(B) 19=-224(B) 20=-224(B) 21=-224(B) 22=-224(B) 23=-224(B) 24=-224(B) 25=-224(B) 26=-224(B) 27=-224(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51
- 44) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=14, 1-14=-25, 6-7=3, 6-15=25
Concentrated Loads (lb)
Vert: 11=-224(B) 18=-224(B) 19=-224(B) 20=-224(B) 21=-224(B) 22=-224(B) 23=-224(B) 24=-224(B) 25=-224(B)
26=-224(B) 27=-224(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51
- 45) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 16-17=-36, 7-13=-20
Horz: 1-13=-3, 1-14=-25, 6-7=-14, 6-15=25
Concentrated Loads (lb)
Vert: 11=-224(B) 18=-224(B) 19=-224(B) 20=-224(B) 21=-224(B) 22=-224(B) 23=-224(B) 24=-224(B) 25=-224(B)
26=-224(B) 27=-224(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-16=-36, 17=-36-to-6=-51
- 46) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-38, 7-13=-20
Horz: 1-13=18, 1-14=37, 6-7=5, 6-15=25
Concentrated Loads (lb)
Vert: 11=-230(B) 18=-230(B) 19=-230(B) 20=-230(B) 21=-230(B) 22=-230(B) 23=-230(B) 24=-230(B) 25=-230(B)
26=-230(B) 27=-230(B)
Trapezoidal Loads (plf)
Vert: 17=-38-to-6=-53

Continued on page 7

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T32	Flat Girder	4	2	I50215670
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:02 2022 Page 7
ID:6EjRszEEA1occ44RuFMRXly93l1-vGFpzZwF?9MesSpZFcKNLxtECXc2AbwPZ_rwbMzIHMF

- LOAD CASE(S)** Standard
- 47) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-17=-38, 7-13=-20
- Horz: 1-13=-5, 1-14=-25, 6-7=-18, 6-15=-37
- Concentrated Loads (lb)
- Vert: 11=-230(B) 18=-230(B) 19=-230(B) 20=-230(B) 21=-230(B) 22=-230(B) 23=-230(B) 24=-230(B) 25=-230(B) 26=-230(B) 27=-230(B)
- Trapezoidal Loads (plf)
- Vert: 17=-38-to-6=-53
- 48) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-17=-38, 7-13=-20
- Horz: 1-13=14, 1-14=-25, 6-7=3, 6-15=25
- Concentrated Loads (lb)
- Vert: 11=-230(B) 18=-230(B) 19=-230(B) 20=-230(B) 21=-230(B) 22=-230(B) 23=-230(B) 24=-230(B) 25=-230(B) 26=-230(B) 27=-230(B)
- Trapezoidal Loads (plf)
- Vert: 17=-38-to-6=-53
- 49) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-17=-38, 7-13=-20
- Horz: 1-13=-3, 1-14=-25, 6-7=-14, 6-15=25
- Concentrated Loads (lb)
- Vert: 11=-230(B) 18=-230(B) 19=-230(B) 20=-230(B) 21=-230(B) 22=-230(B) 23=-230(B) 24=-230(B) 25=-230(B) 26=-230(B) 27=-230(B)
- Trapezoidal Loads (plf)
- Vert: 17=-38-to-6=-53
- 50) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-17=-12, 7-13=-12
- Horz: 1-13=16, 1-14=16
- Concentrated Loads (lb)
- Vert: 11=-269(B) 18=-269(B) 19=-269(B) 20=-269(B) 21=-269(B) 22=-269(B) 23=-269(B) 24=-269(B) 25=-269(B) 26=-269(B) 27=-269(B)
- Trapezoidal Loads (plf)
- Vert: 17=-12-to-6=-27
- 51) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-17=-12, 7-13=-12
- Horz: 6-7=-16, 6-15=-16
- Concentrated Loads (lb)
- Vert: 11=-269(B) 18=-269(B) 19=-269(B) 20=-269(B) 21=-269(B) 22=-269(B) 23=-269(B) 24=-269(B) 25=-269(B) 26=-269(B) 27=-269(B)
- Trapezoidal Loads (plf)
- Vert: 17=-12-to-6=-27

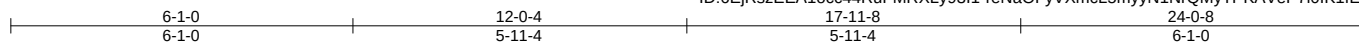
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215671
B212230-G01R	T33	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:04 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy9311-reNaOfyVXmcl5myyN1NrQMTPKAVeP7i0IK1fEzIHMD



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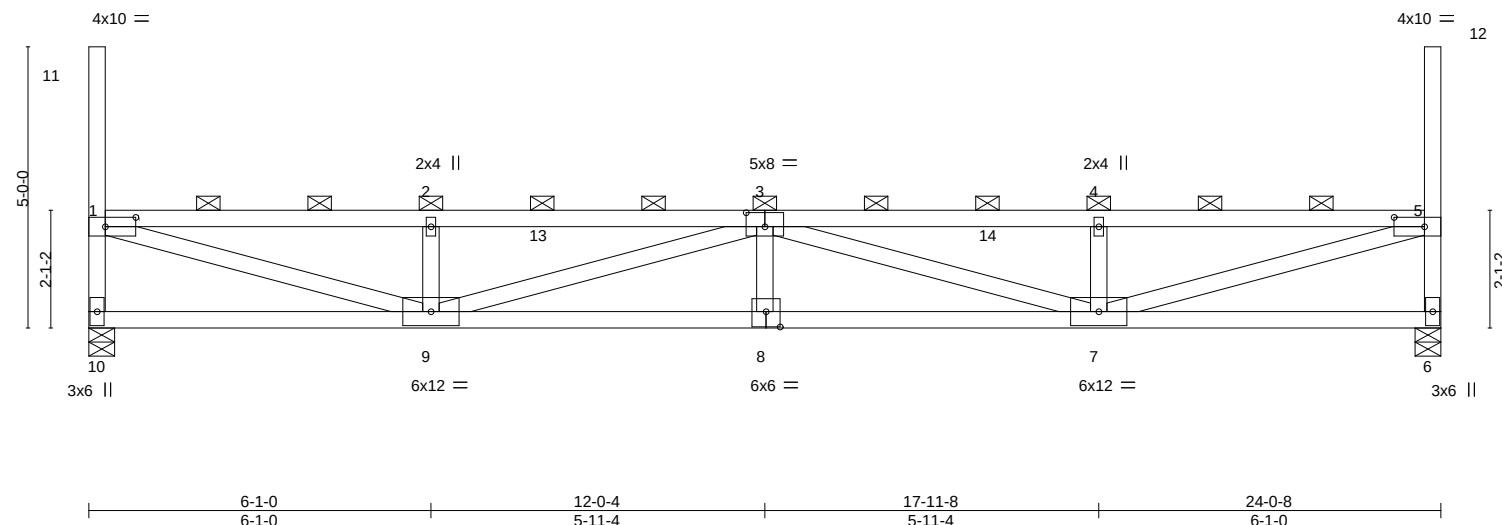


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [3:0-4-0,0-3-0], [5:0-6-8,0-2-0], [8:0-3-0,0-3-4]															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL (roof) 20.0		Plate Grip DOL		1.15		TC 0.82		Vert(LL)		0.28 8 >999 240		MT20		197/144	
Snow (Pf/Pg) 18.9/20.0		Lumber DOL		1.15		BC 0.97		Vert(CT)		-0.49 8-9 >576 180					
TCDL 10.0		Rep Stress Incr		NO		WB 0.93		Horz(CT)		0.07 6 n/a n/a					
BCLL 0.0 *		Code IBC2018/TPI2014				Matrix-MS									
BCDL 10.0												Weight: 97 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (3-0-3 max.): 1-11, 1-5, 5-12, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-3-12 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 10=0-5-8, 6=0-5-8
 Max Horz 10=-309(LC 10)
 Max Uplift 10=-31(LC 10), 6=-31(LC 11)
 Max Grav 10=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-10=-945/532, 1-2=-2547/1323, 2-3=-2547/1323, 3-4=-2547/1320, 4-5=-2547/1320, 5-6=-945/533
 BOT CHORD 9-10=-659/672, 8-9=-1818/3300, 7-8=-1817/3302
 WEBS 1-9=-1396/2556, 2-9=-400/320, 3-9=-788/661, 3-7=-789/649, 4-7=-400/317, 5-7=-1403/2556

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 10 and 31 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 13-14=-58, 6-10=-20



February 15, 2022

Continued on page 2

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

MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T33	Flat	4	1	I50215671
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:04 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-reNaOFyVXmcl5myyN1NrQMYPKAVeP7i0IK1fEzIHMD

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-13=-58, 14=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-50, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-13=-50, 14=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-48, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-13=-48, 14=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 13-14=-20, 6-10=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-13=-20, 14=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=54, 6-10=-12
Horz: 1-10=19, 1-11=87, 5-6=34, 5-12=55
Trapezoidal Loads (plf)
Vert: 1=39-to-13=54, 14=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=54, 6-10=-12
Horz: 1-10=-34, 1-11=-55, 5-6=-19, 5-12=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-13=54, 14=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-32, 6-10=-20
Horz: 1-10=-23, 1-11=36, 5-6=-31, 5-12=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-32, 14=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-32, 6-10=-20
Horz: 1-10=31, 1-11=-55, 5-6=23, 5-12=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-32, 14=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=12, 1-11=50, 5-6=18, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=-18, 1-11=-33, 5-6=-12, 5-12=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=24, 1-11=50, 5-6=6, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=-6, 1-11=-33, 5-6=-24, 5-12=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=7, 1-11=-33, 5-6=15, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T33	Flat	4	1	I50215671
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:04 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93l1-reNaOFyVXmcl5myyN1NrQMyTPKAVeP7i0IK1fEzIHMD

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=-15, 1-11=-33, 5-6=-7, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=7, 1-11=-33, 5-6=15, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=16, 6-10=-12
Horz: 1-10=-15, 1-11=-33, 5-6=-7, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=1-to-13=16, 14=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=19, 1-11=-33, 5-6=4, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-3, 6-10=-20
Horz: 1-10=-4, 1-11=-33, 5-6=-19, 5-12=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-13=-3, 14=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 13-14=-20, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-13=-20, 14=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-13=-36, 14=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T33	Flat	4	1	I50215671
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:04 2022 Page 4
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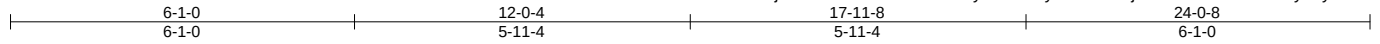
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-38, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-13=-38, 14=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-28, 6-10=-12
Horz: 1-10=-16, 1-11=33, 5-6=-16, 5-12=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-13=-28, 14=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=4, 6-10=-12
Horz: 1-10=16, 1-11=33, 5-6=16, 5-12=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-13=4, 14=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 13-14=-50, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-13=-50, 14=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 13-14=-50, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-13=-50, 14=-50-to-5=-65

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215672
B212230-G01R	T34	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:05 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXly9311-Krxybbz7H4kCjvX8xku4zaVeXkW5NyrFy4aBhzlHMC



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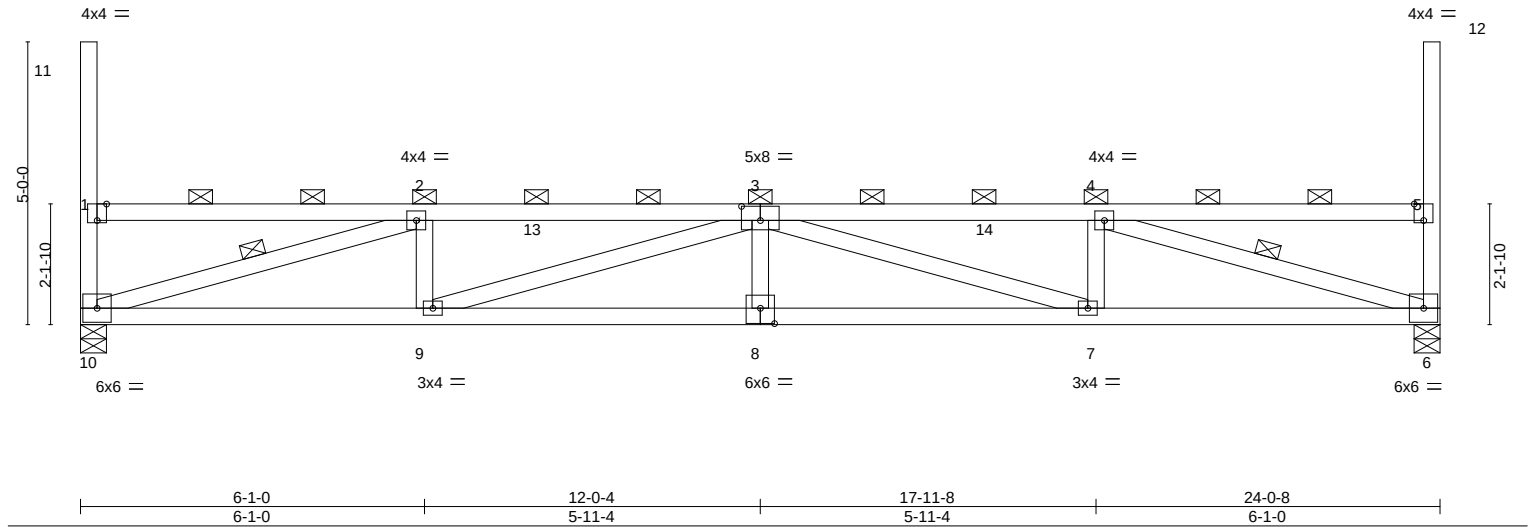


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge], [8:0-3-0,0-3-4]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.28	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.47	7-8	>604	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.11	6	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (3-4-11 max.): 1-11, 1-5, 5-12, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-3-0 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 2-10, 4-6

REACTIONS. (size) 10=0-5-8, 6=0-5-8
Max Horz 10=-306(LC 10)
Max Uplift 10=-90(LC 10), 6=-90(LC 11)
Max Grav 10=1009(LC 29), 6=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-423/363, 2-3=-2492/1383, 3-4=-2492/1385, 4-5=-422/362
BOT CHORD 9-10=-1680/2492, 8-9=-1863/3227, 7-8=-1863/3227, 6-7=-1264/2492
WEBS 2-10=-2508/1457, 2-9=-108/422, 3-9=-781/631, 3-7=-781/627, 4-7=-107/422, 4-6=-2508/1454

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 10 and 90 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 13-14=-58, 6-10=-20



February 15,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T34	Flat	4	1	I50215672
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:05 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRLy93l1-Krxybbz7H4kCjvX8xku4zaVeXkW5NyirFy4aBhzlHMC

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-13=-58, 14=-58-to-5=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 13-14=-48, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-13=-48, 14=-48-to-5=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=18, 1-11=37, 5-6=5, 5-12=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 13-14=-36, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-13=-36, 14=-36-to-5=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 13-14=-60, 6-10=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-13=-60, 14=-60-to-5=-75

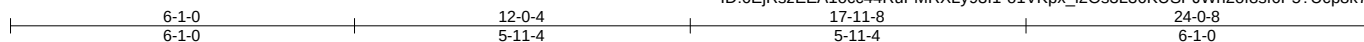
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215673
B212230-G01R	T35	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:06 2022 Page 1

ID:6EjRszEEA10cc44RuFMRXLY93I1-o1VKpx_I2Os3L36KUSPJWn2of8sf6P5?Ucp8k7zIHMB



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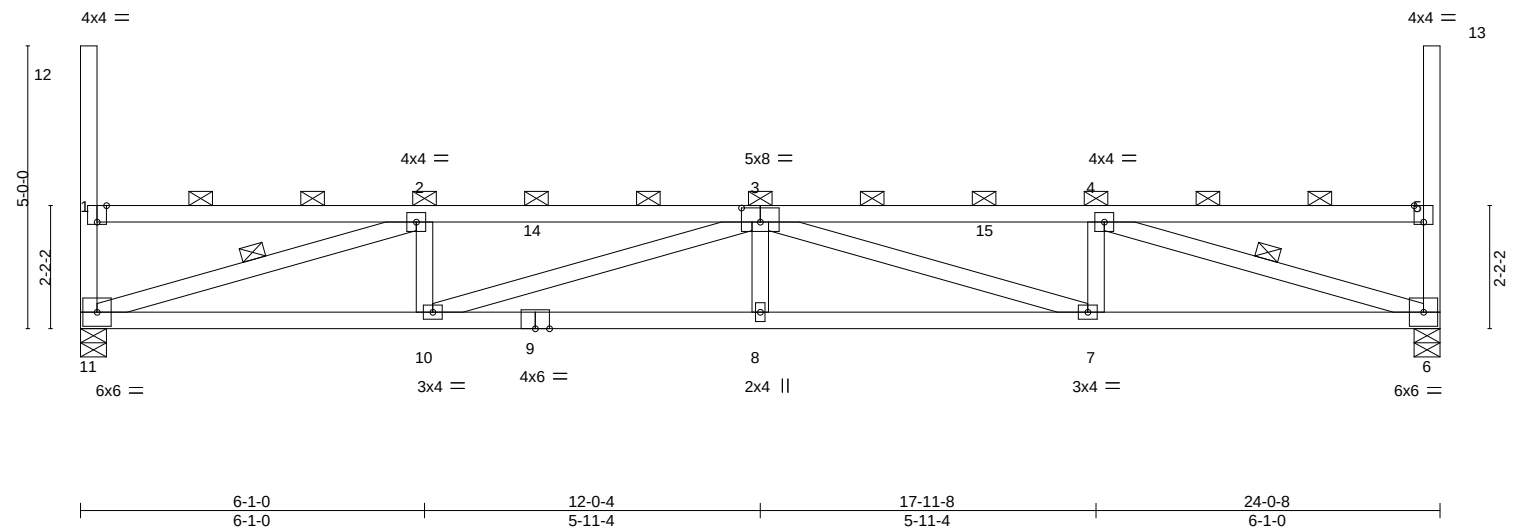


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL		1.15		TC	0.77	Vert(LL)	0.26	8	>999	240	MT20	197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL		1.15		BC	0.93	Vert(CT)	-0.45	7-8	>630	180			
TCDL	10.0	Rep Stress Incr		NO		WB	0.51	Horz(CT)	0.11	6	n/a	n/a			
BCLL	0.0 *	Code IBC2018/TPI2014				Matrix-MS									
BCDL	10.0													Weight: 97 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-5-4 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-12 oc bracing.
WEBS 1 Row at midpt 2-11, 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=-304(LC 10)
Max Uplift 11=-31(LC 10), 6=-30(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

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

TOP CHORD 1-2=-422/343, 2-3=-2438/1265, 3-4=-2439/1266, 4-5=-422/343
BOT CHORD 10-11=-1559/2438, 8-10=-1749/3157, 7-8=-1749/3157, 6-7=-1153/2439
WEBS 2-11=-2461/1346, 2-10=-112/418, 3-10=-754/628, 3-7=-753/625, 4-7=-112/418, 4-6=-2461/1343

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 11 and 30 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T35	Flat	4	1	I50215673
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:06 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy93I1-o1VKpx_l2Os3L36KUSPJWn2of8sf6P5?Ucp8k7zIHMB

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T35	Flat	4	1	I50215673
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:06 2022 Page 3
ID:6EjRsZEEA1occ44RuFMRXLy93I1-o1VKpx_I2Os3L36KUSPJWn2of8sf6P5?Ucp8k7zIHMB

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T35	Flat	4	1	I50215673
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:06 2022 Page 4
ID:6EjRsZEEA1occ44RuFMRXLy93I1-o1VKpx_I2Os3L36KUSPJWn2of8sf6P5?Ucp8k7zIHMB

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215674
B212230-G01R	T36	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:13 2022 Page 1

ID:6EjRsZEEA1occ44RuFMRXLy93I1-5NQ_HK38PXl4h88hPQ1yIlg0GzFcFay15B0?TDzIHm4

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6-1-0 12-0-4 5-11-4 5-11-4 6-1-0

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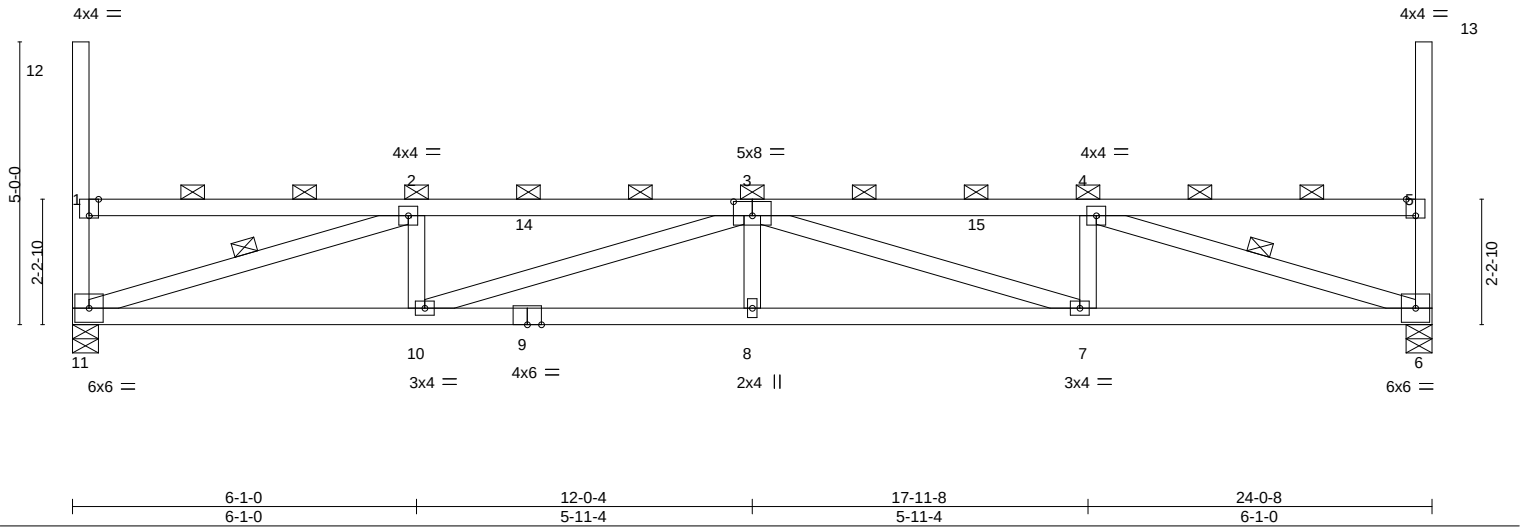


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.25	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.43	7-8	>657	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.11	6	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS								
BCDL	10.0										Weight: 97 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (3-5-14 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-5-4 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 2-11, 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=302(LC 13)
Max Uplift 11=-30(LC 10), 6=-30(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-411/335, 2-3=-2387/1238, 3-4=-2388/1240, 4-5=-410/334
BOT CHORD 10-11=-1530/2387, 8-10=-1716/3090, 7-8=-1716/3090, 6-7=-1134/2388
WEBS 2-11=-2415/1320, 2-10=-112/418, 3-10=-739/615, 3-7=-738/612, 4-7=-111/418, 4-6=-2416/1317

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 11 and 30 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15,2022

Continued on page 2

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

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T36	Flat	4	1	I50215674
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:13 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy93I1-5NQ_HK38PXl4h88hPQ1yI/Gq0GzFcFay15B0?TDzIHm4

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T36	Flat	4	1	I50215674
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:13 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93I1-5NQ_HK38PXl4h88hPQ1yI Gq0GzFcFay15B0?TDzIHm4

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T36	Flat	4	1	I50215674
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:13 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93I1-5NQ_HK38PXl4h88hPQ1yIGq0GzFcFay15B0?TDzIHm4

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215675
B212230-G01R	T37	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLy93l1-1mYki04Px9?nwSI3Wr3QNhwM7myMjOkKYVV6Y5zIHm2

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6-1-0 5-11-4 5-11-4 6-1-0

Scale = 1:41.0

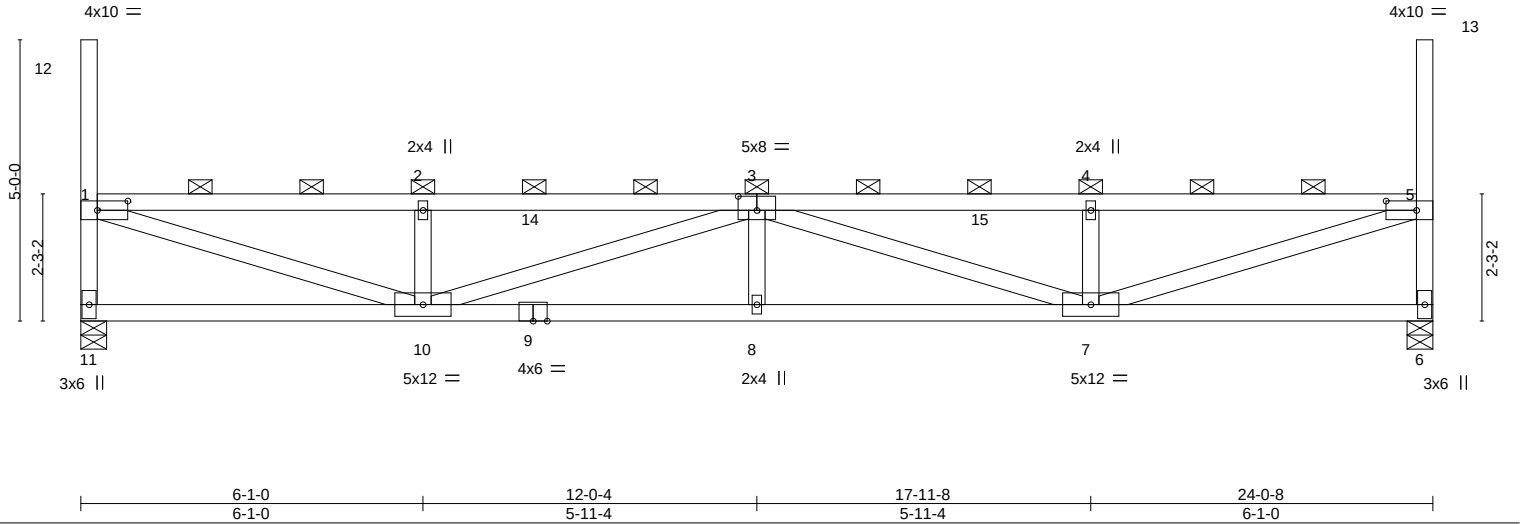


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [3:0-4-0,0-3-0], [5:0-6-8,0-2-0]															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL (roof) 20.0		Plate Grip DOL		1.15		TC 0.73		Vert(LL) 0.24		8 >999		240		MT20 197/144	
Snow (Pf/Pg) 18.9/20.0		Lumber DOL		1.15		BC 0.89		Vert(CT) -0.42		7-8 >680		180			
TCDL 10.0		Rep Stress Incr		NO		WB 0.87		Horz(CT) 0.06		6 n/a		n/a			
BCLL 0.0 *		Code IBC2018/TPI2014				Matrix-MS								Weight: 98 lb FT = 20%	
BCDL 10.0															

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (3-2-10 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-5-14 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=300(LC 11)
Max Uplift 11=-30(LC 10), 6=-30(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-946/531, 1-2=-2337/1214, 2-3=-2337/1214, 3-4=-2338/1212, 4-5=-2338/1212, 5-6=-946/532
BOT CHORD 10-11=-614/624, 8-10=-1684/3026, 7-8=-1684/3026
WEBS 1-10=-1291/2370, 2-10=-402/320, 3-10=-726/606, 3-7=-725/597, 4-7=-402/317, 5-7=-1296/2371

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 11 and 30 lb uplift at joint 6.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15,2022

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T37	Flat	4	1	I50215675
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:15 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-1mYki04Px9?nwSI3Wr3QNhwM7myMjOkKYVV6Y5zIHm2

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T37	Flat	4	1	I50215675
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:15 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93l1-1mYki04Px9?nwSI3Wr3QNhwM7myMjOkKYVV6Y5zIHm2

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T37	Flat	4	1	I50215675
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:15 2022 Page 4
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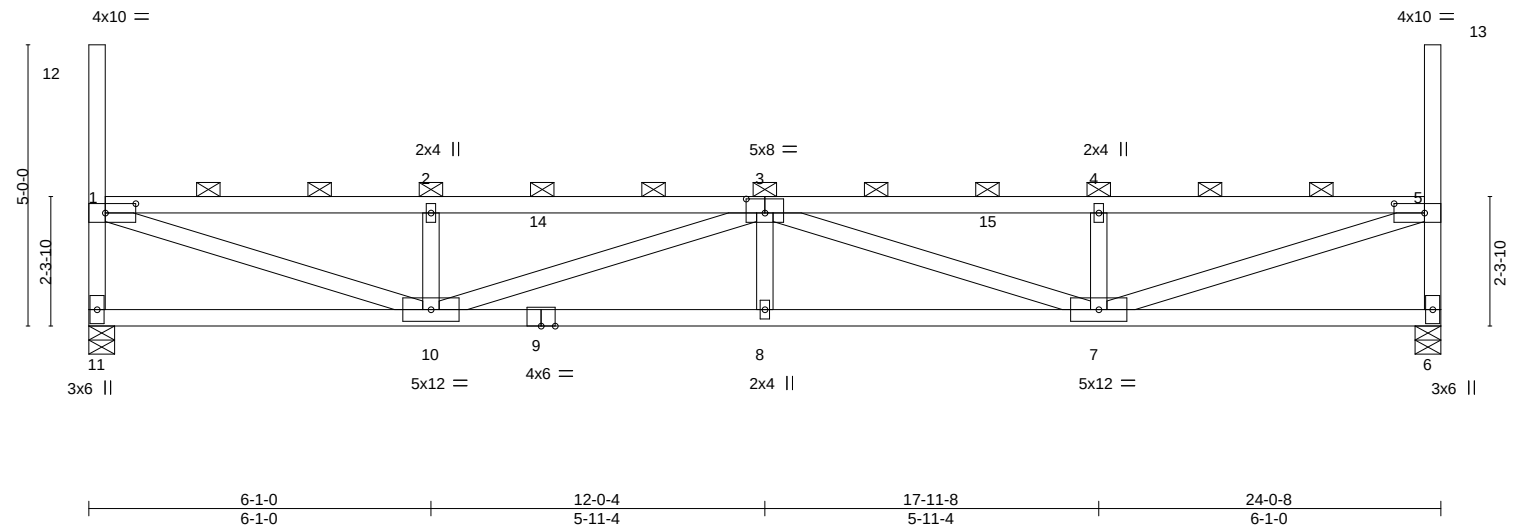
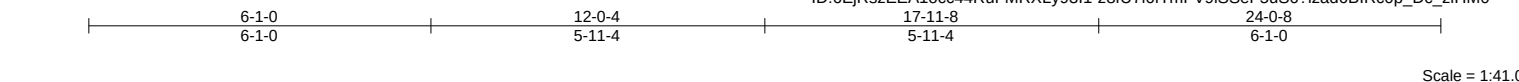
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

Building 1

Job B212230-G01R	Truss T38	Truss Type Flat	Qty 4	Ply 1	Brinkmann Constructors I50215676
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Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:17 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy9311-z8fU7i6fTmFV9ISseF5uS6?izad6BIRcOp_Dc_zlHMO



LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) 0.23 8 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.86	Vert(CT) -0.40 7-8 >707 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 6 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 98 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (3-3-4 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-6-6 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-298(LC 12)
Max Uplift 11=-30(LC 10), 6=-30(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-947/531, 1-2=-2290/1190, 2-3=-2290/1190, 3-4=-2290/1187, 4-5=-2290/1187, 5-6=-947/532
BOT CHORD 10-11=-603/613, 8-10=-1654/2964, 7-8=-1654/2964
WEBS 1-10=-1267/2328, 2-10=-402/320, 3-10=-712/593, 3-7=-711/585, 4-7=-403/317, 5-7=-1272/2329

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 11 and 30 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15, 2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T38	Flat	4	1	I50215676
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:17 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy9311-z8fU7i6fTmFV9ISseF5uS6?izad6BIRcOp_Dc_zIHMO

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T38	Flat	4	1	I50215676
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:17 2022 Page 3
ID:6EJRszEEA1occ44RuFMRXLy93I1-z8fU7i6fTmFV9ISseF5uS6?izad6BIRcOp_Dc_zIHMO

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T38	Flat	4	1	I50215676
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:17 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93i1-z8fU7i6fTmFV9ISseF5uS6?izad6BIRc0p_Dc_zIHMO

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

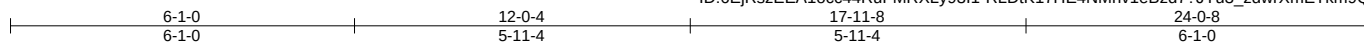
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215677
B212230-G01R	T39	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:18 2022 Page 1

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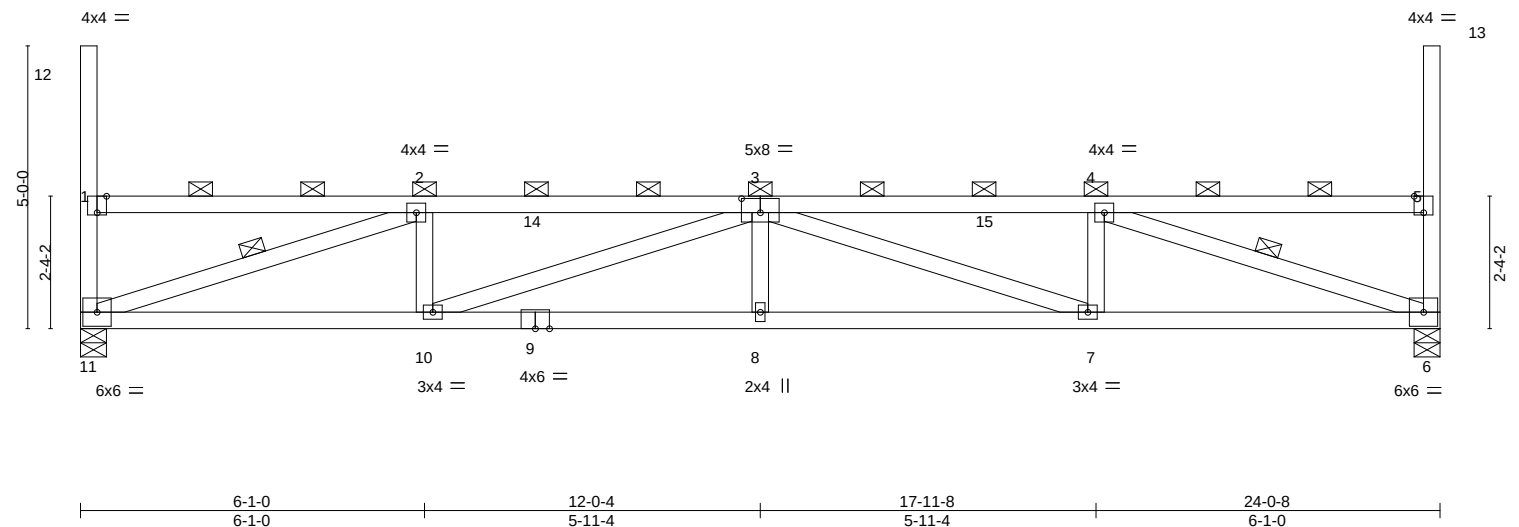


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]														
LOADING (psf)			SPACING- 2-0-0			CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL (roof)	20.0		Plate Grip DOL	1.15		TC	0.68	Vert(LL)	0.23	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0		Lumber DOL	1.15		BC	0.85	Vert(CT)	-0.39	7-8	>738	180		
TCDL	10.0		Rep Stress Incr	NO		WB	0.48	Horz(CT)	0.10	6	n/a	n/a		
BCLL	0.0	*	Code IBC2018/TPI2014			Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0													

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-7-7 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-13 oc bracing.
WEBS 1 Row at midpt 2-11, 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=-295(LC 10)
Max Uplift 11=-30(LC 10), 6=-30(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

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

TOP CHORD 1-2=-380/311, 2-3=-2246/1165, 3-4=-2246/1166, 4-5=-379/311
BOT CHORD 10-11=-1448/2246, 8-10=-1626/2904, 7-8=-1626/2904, 6-7=-1082/2246
WEBS 2-11=-2290/1249, 2-10=-111/419, 3-10=-697/578, 3-7=-696/575, 4-7=-111/419, 4-6=-2290/1246

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 11 and 30 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T39	Flat	4	1	I50215677
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ID:6EjRszEEA1occ44RuFMRXly93l1-RLDtK17HE4NMnv1eBzd7?JYu3_zdwrXmETkm9QzIHm?

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T39	Flat	4	1	I50215677
					Job Reference (optional)

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ID:6EjRszEEA1occ44RuFMRXly93l1-RLDtK17HE4NMnv1eBzd7?JYu3_zdwrXmETkm9QzIHM?

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T39	Flat	4	1	I50215677
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:19 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93l1-vXnFXN8v_NVDP3cqlg8MXX43pNJsfInvT7TKhtzIHM_

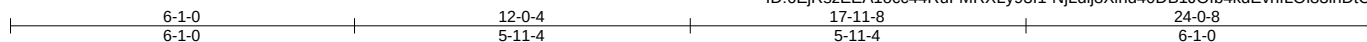
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215678
B212230-G01R	T40	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:20 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXly9311-NjLdlj8Xlhd40DB1JOfb4kdEvnfLOI83inDtCJzHLz



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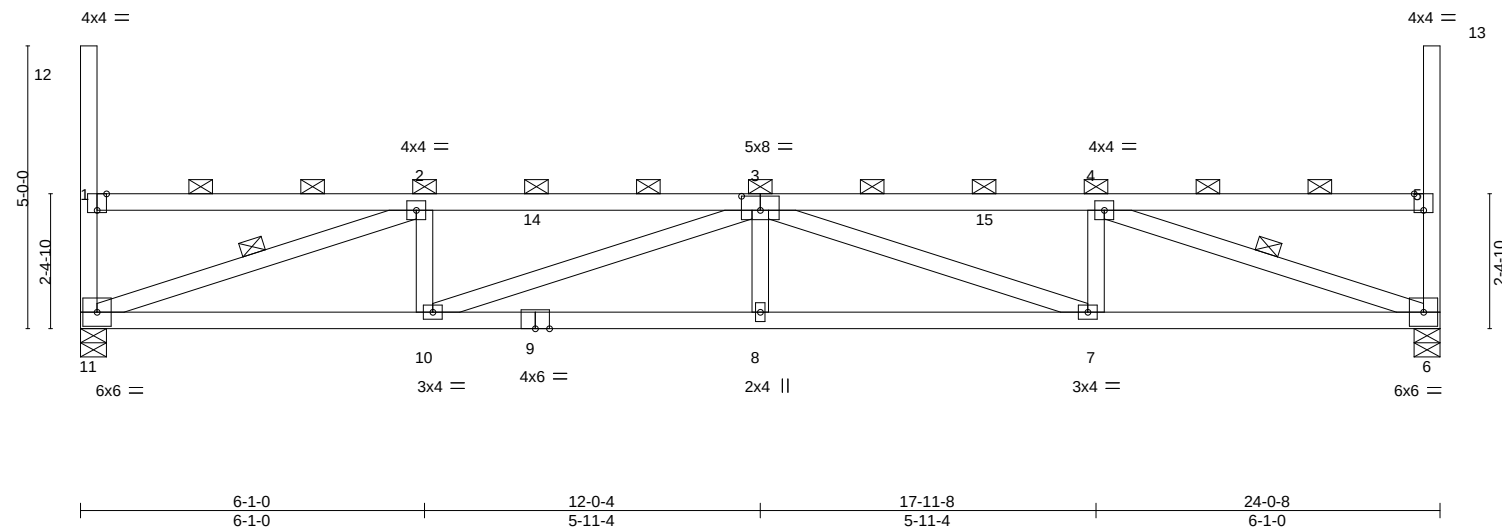


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.22 8 >999 240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.37 7-8 >766 180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.10 6 n/a n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS				Weight: 98 lb	FT = 20%
BCDL	10.0								

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-8-0 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-6 oc bracing.
WEBS 1 Row at midpt 2-11, 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=293(LC 13)
Max Uplift 11=-30(LC 10), 6=-30(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

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

TOP CHORD 1-2=-370/304, 2-3=-2202/1142, 3-4=-2203/1143, 4-5=-370/304
BOT CHORD 10-11=-1423/2202, 8-10=-1597/2847, 7-8=-1597/2847, 6-7=-1065/2203
WEBS 2-11=-2251/1227, 2-10=-111/419, 3-10=-684/566, 3-7=-684/564, 4-7=-110/419, 4-6=-2252/1224

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 11 and 30 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15,2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T40	Flat	4	1	I50215678
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:20 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy9311-NjLdlj8Xlhd40DB1JOfb4kdEvnfLOI83inDtCJzIHLz

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T40	Flat	4	1	I50215678
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:20 2022 Page 3
ID:6EjRsZEEA1occ44RuFMRXLy9311-NjLdlj8Xlhd40DB1JOfb4kdEvnfLOI83inDtCJzHLz

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T40	Flat	4	1	I50215678
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:20 2022 Page 4
ID:6EjRsZEEA1occ44RuFMRXLy93I1-NjLdlj8Xlhd40DB1JOfb4kdEvnfLOI83inDtCJziHLz

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

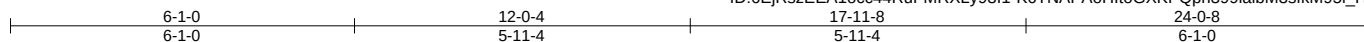
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215679
B212230-G01R	T41	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:22 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly93l1-K6TNAPAOHltoGKKPQph399ialbM3sfkM95i_HBzjHLx



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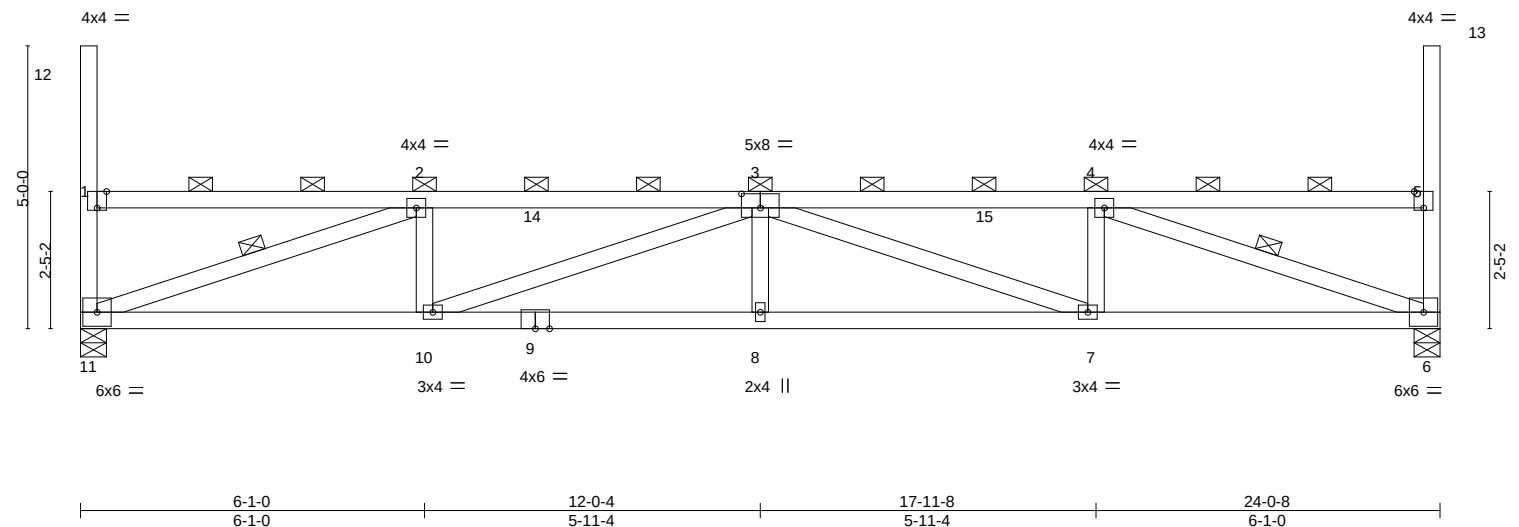


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]														
LOADING (psf)			SPACING- 2-0-0			CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL (roof)	20.0		Plate Grip DOL	1.15		TC	0.64	Vert(LL)	0.21	8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0		Lumber DOL	1.15		BC	0.82	Vert(CT)	-0.36	7-8	>795	180		
TCDL	10.0		Rep Stress Incr	NO		WB	0.47	Horz(CT)	0.10	6	n/a	n/a		
BCLL	0.0	*	Code IBC2018/TPI2014			Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0													

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-8-8 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-14 oc bracing.
WEBS 1 Row at midpt 2-11, 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=291(LC 11)
Max Uplift 11=-29(LC 10), 6=-29(LC 11)
Max Grav 11=1009(LC 2), 6=1009(LC 2)

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

TOP CHORD 1-2=-361/297, 2-3=-2160/1121, 3-4=-2161/1122, 4-5=-360/297
BOT CHORD 10-11=-1398/2160, 8-10=-1570/2792, 7-8=-1570/2792, 6-7=-1050/2161
WEBS 2-11=-2214/1206, 2-10=-110/419, 3-10=-672/556, 3-7=-671/553, 4-7=-110/419, 4-6=-2215/1203

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 11 and 29 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15,2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T41	Flat	4	1	I50215679
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:22 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-K6TNAPAOHltoGKKPQph399ialbM3sfkM95i_HBzIHLx

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T41	Flat	4	1	I50215679
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:22 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXly93l1-K6TNAPAoHltoGxKPQph399ialbM3sfkM95i_HBziHLx

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T41	Flat	4	1	I50215679
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:22 2022 Page 4
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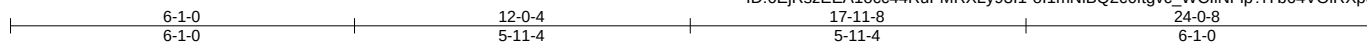
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

Building 1

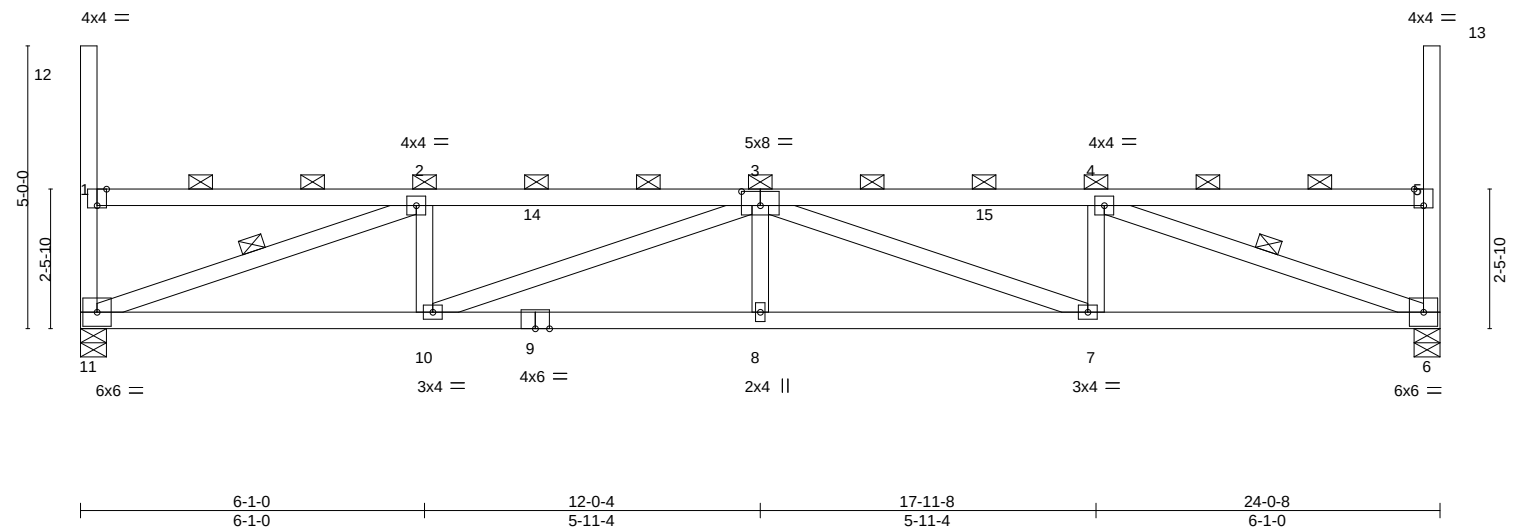
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215680
B212230-G01R	T42	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:23 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy931l-ol1mNIBQ2c0ftgvc_WCiiNFlp?iYb64VOIRXpezlHLw



Scale = 1:40.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	0.20 8	>999	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.35 7-8	>823	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.46	Horz(CT)	0.09 6	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MS					Weight: 99 lb	FT = 20%
BCDL 10.0									

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-9-0 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-1 oc bracing.
WEBS 1 Row at midpt 2-11, 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=-289(LC 10)
Max Uplift 11=-88(LC 10), 6=-88(LC 11)
Max Grav 11=1009(LC 29), 6=1009(LC 29)

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

TOP CHORD 1-2=-343/299, 2-3=-2120/1177, 3-4=-2120/1178, 4-5=-343/299
BOT CHORD 10-11=-1452/2120, 8-10=-1612/2740, 7-8=-1612/2740, 6-7=-1112/2120
WEBS 2-11=-2179/1258, 2-10=-106/424, 3-10=-670/535, 3-7=-670/533, 4-7=-105/424, 4-6=-2179/1257

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 11 and 88 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard Except:

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15,2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T42	Flat	4	1	I50215680
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

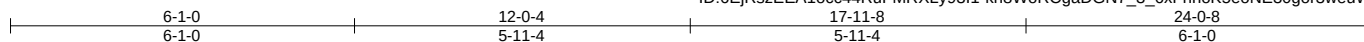
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:24 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy93i1-GVb8b5B2pw8WVqUoYEjYEanwZO1nKZKedPB5L4zIHLv

- LOAD CASE(S)** Standard Except:
- Trapezoidal Loads (plf)
 - Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 14-15=-48, 6-11=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-14=-48, 15=-60-to-5=-48
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 14-15=-36, 6-11=-20
 - Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-14=-36, 15=-47-to-5=-36
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 14-15=-36, 6-11=-20
 - Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-14=-36, 15=-47-to-5=-36
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 14-15=-36, 6-11=-20
 - Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-14=-36, 15=-47-to-5=-36
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 14-15=-36, 6-11=-20
 - Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-14=-36, 15=-47-to-5=-36
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 14-15=-60, 6-11=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215681
B212230-G01R	T43	Flat	4	1	Job Reference (optional)	

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ID:6EiRszEEA1occ44RuEMRXLv93I1-kh8WoRCqaDGN7 3 6xEnnpK5eoNE30qor3weuWz|HLu



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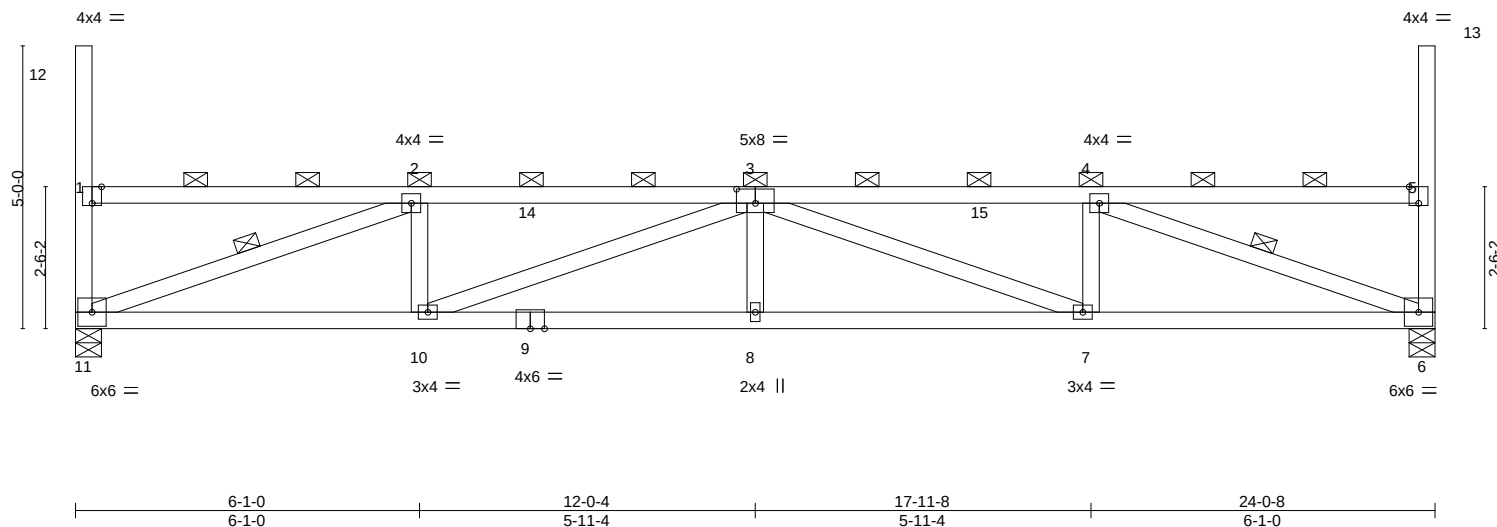


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0				in (loc)	l/defl	L/d	GRIP
Snow (Pf/Pg)	18.9/20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.20 8	>999 240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.33 7-8	>853 180	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.09 6	n/a n/a	
BCDL	10.0	Code IBC2018/TPI2014		Matrix-MS					Weight: 99 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-9-8 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-7-9 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 2-11, 4-6

REACTIONS. (size) 11=0-5-8, 6=0-5-8
 Max Horz 11=287(LC 13)
 Max Uplift 11=-88(LC 10), 6=-88(LC 11)
 Max Grav 11=1009(LC 29), 6=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-334/292, 2-3=-2081/1155, 3-4=-2081/1156, 4-5=-334/292
BOT CHORD 10-11=-1427/2081, 8-10=-1585/2689, 7-8=-1585/2689, 6-7=-1096/2081
WEBS 2-11=-2144/1238, 2-10=-105/424, 3-10=-659/525, 3-7=-659/523, 4-7=-104/424,
 4-6=-2145/1236

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 11 and 88 lb uplift at joint 6.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58 6-11=-20



February 15, 2022

Continued on page 2



Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personnel injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Code**

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T43	Flat	4	1	I50215681
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:25 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXly93l1-kh8WoRCgaDGN7_3_6xFnnoK5eoNE30gor3weuWzIHLu

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-14=-48, 15=-48-to-5=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215682
B212230-G01R	T44	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:26 2022 Page 1
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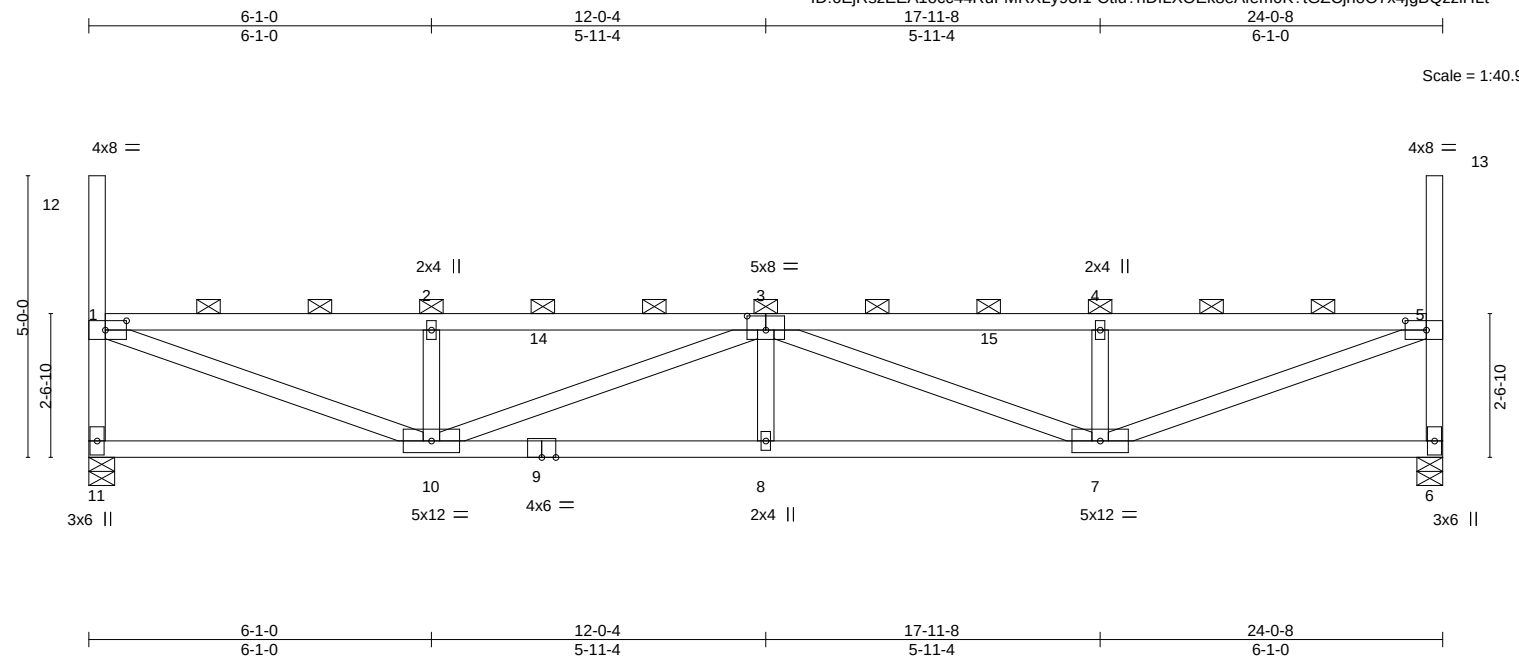


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [3:0-4-0,0-3-0], [5:0-4-8,0-2-0]													
LOADING (psf)			SPACING- 2-0-0			CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP		
TCLL (roof)	20.0		Plate Grip DOL	1.15		TC	0.59	Vert(LL)	0.19 8	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0		Lumber DOL	1.15		BC	0.78	Vert(CT)	-0.33 7-8	>876	180		
TCDL	10.0		Rep Stress Incr	NO		WB	0.83	Horz(CT)	0.05 6	n/a	n/a		
BCLL	0.0	*	Code IBC2018/TPI2014			Matrix-MS						Weight: 99 lb	FT = 20%
BCDL	10.0												

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (3-6-6 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-8-12 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 11=0-5-8, 6=0-5-8
Max Horz 11=-284(LC 10)
Max Uplift 11=-35(LC 10), 6=-81(LC 11)
Max Grav 11=1009(LC 29), 6=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-948/536, 1-2=-2043/1079, 2-3=-2043/1079, 3-4=-2043/1116, 4-5=-2043/1116, 5-6=-949/582
BOT CHORD 10-11=-546/553, 8-10=-1527/2641, 7-8=-1527/2641
WEBS 1-10=-1162/2110, 2-10=-405/321, 3-10=-640/545, 3-7=-666/496, 4-7=-405/347, 5-7=-1200/2110

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 11 and 81 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20

Continued on page 2



February 15, 2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T44	Flat	4	1	I50215682
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:26 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy93I1-Ctiu?nDILXOEK8eAfem0K?tGZCjhoO7x4jgBQzzlHLt

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-14=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-14=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-60
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 5-14=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T44	Flat	4	1	I50215682
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:26 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93l1-Ctiu?nDILXOEK8eAfem0K?tGZCjhoO7x4jgBQzzlHLt

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 5-14=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-47
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-14=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T44	Flat	4	1	I50215682
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:26 2022 Page 4
ID:6EjRsZEEA1occ44RuFMRXLy9311-Ctiu?nDILXOEK8eAfem0K?tGZCjhoO7x4jgBQzzlHLt

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-14=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-14=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-14=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 5-14=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 5-14=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 5-14=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 5-14=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T45	Flat	4	1	I50215683
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:28 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93i1-8GqfQSFZt8ex_SoZn3oUPQycB0QLGIJEY19UrzIHLr

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-14=-48, 15=-48-to-5=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=19, 1-12=87, 5-6=34, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=54, 6-11=-12
Horz: 1-11=-34, 1-12=-55, 5-6=-19, 5-13=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-14=54, 15=54-to-5=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=-23, 1-12=36, 5-6=-31, 5-13=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-32, 6-11=-20
Horz: 1-11=31, 1-12=-55, 5-6=23, 5-13=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-32, 15=-32-to-5=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=12, 1-12=50, 5-6=18, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-18, 1-12=-33, 5-6=-12, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=24, 1-12=50, 5-6=6, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-6, 1-12=-33, 5-6=-24, 5-13=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1

Continued on page 3

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T45	Flat	4	1	I50215683
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:28 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93i1-8GqfQSFZt8ex_SoZn3oUPQycB0QLGIJEY19UrzIHLr

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=7, 1-12=-33, 5-6=15, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=16, 6-11=-12
Horz: 1-11=-15, 1-12=-33, 5-6=-7, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=1-to-14=16, 15=16-to-5=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=19, 1-12=-33, 5-6=4, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-3, 6-11=-20
Horz: 1-11=-4, 1-12=-33, 5-6=-19, 5-13=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-14=-3, 15=-3-to-5=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 14-15=-20, 6-11=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-14=-20, 15=-20-to-5=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-14=-36, 15=-36-to-5=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T45	Flat	4	1	I50215683
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

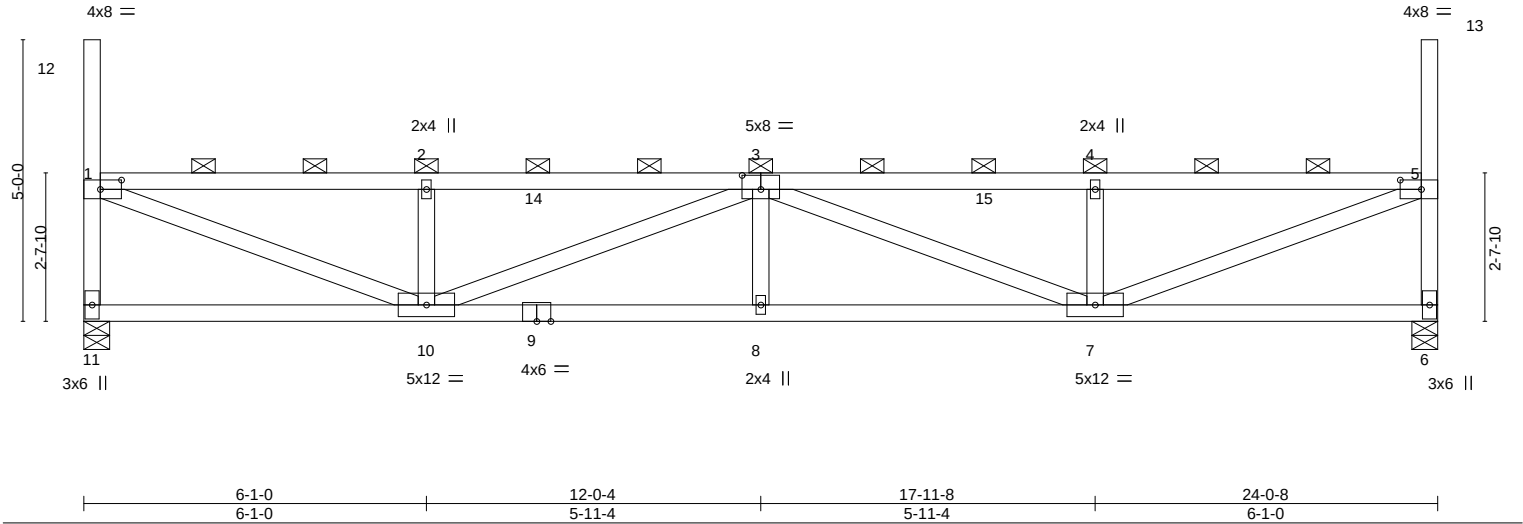
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:28 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXly93i1-8GqfQSFZt8ex_SoZn3oUPQycB0QLGIJEY19UrzIHLr

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-38, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-14=-38, 15=-38-to-5=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-28, 6-11=-12
Horz: 1-11=-16, 1-12=33, 5-6=-16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-14=-28, 15=-28-to-5=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=4, 6-11=-12
Horz: 1-11=16, 1-12=33, 5-6=16, 5-13=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-14=4, 15=4-to-5=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-50, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-14=-50, 15=-50-to-5=-65

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215684
B212230-G01R	T46	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:29 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLY93I1-dSO1eoFBeSmobcNILnJjxeVo3Pmn?lxNmhur1HzlHLq
6-1-0 12-0-4 17-11-8 24-0-8
6-1-0 5-11-4 5-11-4 6-1-0
Scale = 1:40.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	0.17 8	>999	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.30 7-8	>935	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.82	Horz(CT)	0.05 6	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MS					Weight: 99 lb	FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (3-7-6 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-9-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS.	(size) 11=0-5-8, 6=0-5-8
	Max Horz 11=-280(LC 10)
	Max Uplift 11=-87(LC 10), 6=-87(LC 11)
	Max Grav 11=1009(LC 29), 6=1009(LC 29)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-11=-949/587, 1-2=-1972/1096, 2-3=-1972/1096, 3-4=-1972/1094, 4-5=-1972/1094, 5-6=-949/588
BOT CHORD	10-11=-537/527, 8-10=-1510/2548, 7-8=-1510/2548
WEBS	1-10=-1177/2047, 2-10=-406/350, 3-10=-629/500, 3-7=-629/494, 4-7=-406/348, 5-7=-1181/2048

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 11 and 87 lb uplift at joint 6.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20

Continued on page 2



February 15, 2022

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

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T46	Flat	4	1	I50215684
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:29 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-dSO1eoFBeSmobcNILnJjxeVo3Pmn?lxNmhur1HzIHLq

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-14=-48, 15=-48-to-5=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

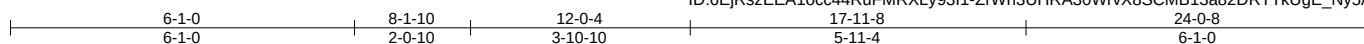
Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215685
B212230-G01R	T47	Flat	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:31 2022 Page 1

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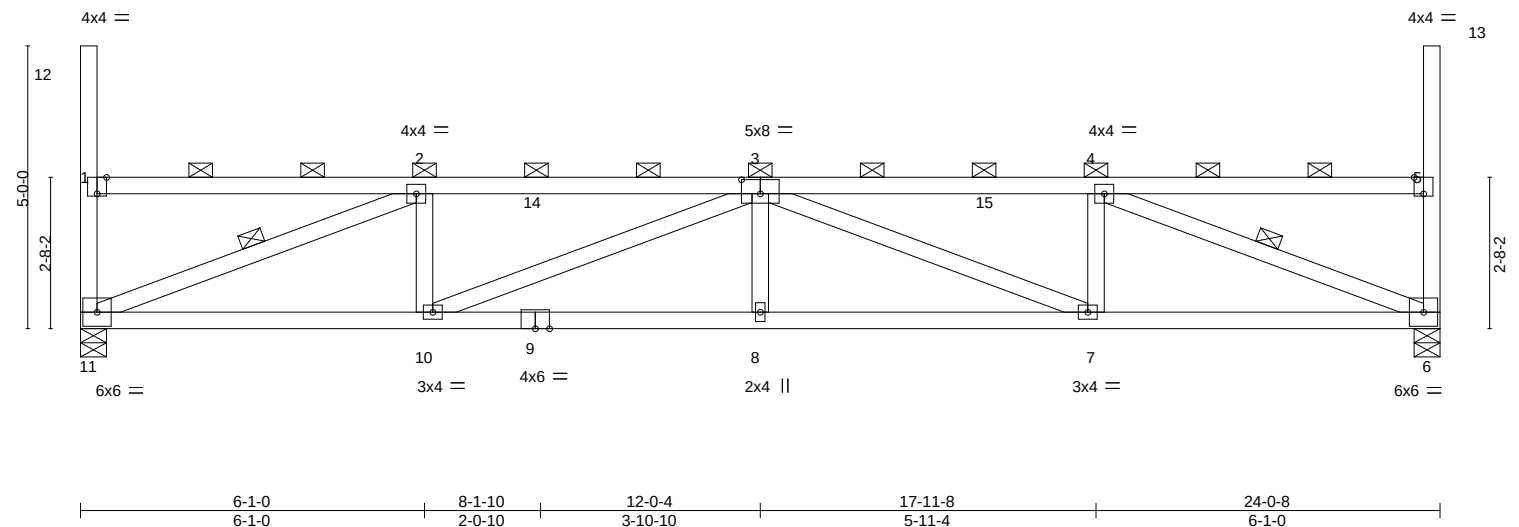


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [3:0-4-0,0-3-0], [5:0-2-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.17 8 >999 240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.29 7-8 >973 180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.09 6 n/a n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS				Weight: 100 lb	FT = 20%
BCDL	10.0								

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-11-7 max.): 1-12, 1-5, 5-13, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-8 oc bracing.
WEBS 1 Row at midpt 2-11, 4-6

REACTIONS.

(size) 11=0-5-8, 6=0-5-8
Max Horz 11=-278(LC 10)
Max Uplift 11=-87(LC 10), 6=-87(LC 11)
Max Grav 11=1009(LC 29), 6=1009(LC 29)

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

TOP CHORD 1-2=-303/268, 2-3=-1939/1076, 3-4=-1939/1077, 4-5=-302/268
BOT CHORD 10-11=-1337/1939, 8-10=-1487/2503, 7-8=-1487/2503, 6-7=-1036/1939
WEBS 2-11=-2019/1162, 2-10=-103/425, 3-10=-618/489, 3-7=-618/487, 4-7=-103/425, 4-6=-2020/1161

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 11 and 87 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced) = Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 14-15=-58, 6-11=-20



February 15,2022

Continued on page 2

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T47	Flat	4	1	I50215685
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:31 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-ZrWn3UHRA30WrvX8SCMB13a82DRTTkUgE_Ny5AziHLo

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-14=-58, 15=-58-to-5=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-48, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-14=-48, 15=-48-to-5=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=18, 1-12=37, 5-6=5, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-5, 1-12=-25, 5-6=-18, 5-13=37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=14, 1-12=-25, 5-6=3, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 14-15=-36, 6-11=-20
Horz: 1-11=-3, 1-12=-25, 5-6=-14, 5-13=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-14=-36, 15=-36-to-5=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 14-15=-60, 6-11=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-14=-60, 15=-60-to-5=-75

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T48	Roof Special	12	1	I50215686
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

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ID:6EjRsZEEA1occ44RuFMRXLy93I1-1139GqI3wN8NS35K0vtQZG7OPdxCTqSe7WdczIHLn

3-2-0
3-2-0

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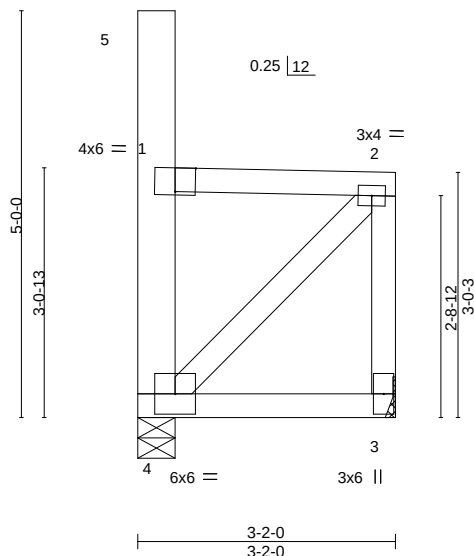


Plate Offsets (X,Y)-- [1:0-2-15,Edge]

LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0			Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.00	3-4	>999	240	MT20	197/144	
Snow (Pf/Pg)	13.9/20.0			Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	3-4	>999	180			
TCDL	10.0			Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a			
BCLL	0.0	*		Code IBC2018/TPI2014		Matrix-MP							Weight: 22 lb	FT = 20%	
BCDL	10.0														

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=0-5-8, 3=Mechanical
Max Horz 4=-188(LC 10)
Max Uplift 4=-175(LC 10), 3=-187(LC 11)
Max Grav 4=216(LC 26), 3=231(LC 12)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-389/271, 2-3=-358/423
WEBS 2-4=-425/626

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 4 and 187 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S)

- Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-2=-48



February 15, 2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T48	Roof Special	12	1	I50215686
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:32 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy93l1-1139Gql3wN8NS35K0vtQZG7OPdxxCFTqSe7WdczIHLn

- LOAD CASE(S)** Standard
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-52-to-2=-41
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-40-to-2=-28
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-40-to-2=-28
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T49	Roof Special	20	1	I50215687
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:33 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLY93I1-VDdYTAIhhhGE4DgXacOf6UfZM1luxi1zhls3A3zIHLm

2-3-4
2-3-4

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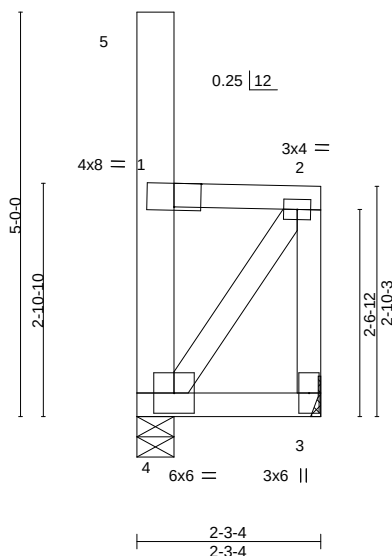


Plate Offsets (X,Y)-- [1:0-3-15,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.00 4	>999	240
Snow (Pl/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00 3-4	>999	180
TCDL	10.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00 3	n/a	n/a
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MP					
BCDL	10.0								
								Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=0-5-8
Max Horz 4=-192(LC 10)
Max Uplift 3=-277(LC 11), 4=-269(LC 10)
Max Grav 3=307(LC 12), 4=295(LC 13)

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

TOP CHORD 1-2=-441/274, 2-3=-652/518
WEBS 2-4=-513/830

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 3 and 269 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-2=-48



February 15, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	T49	Roof Special	20	1	I50215687
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

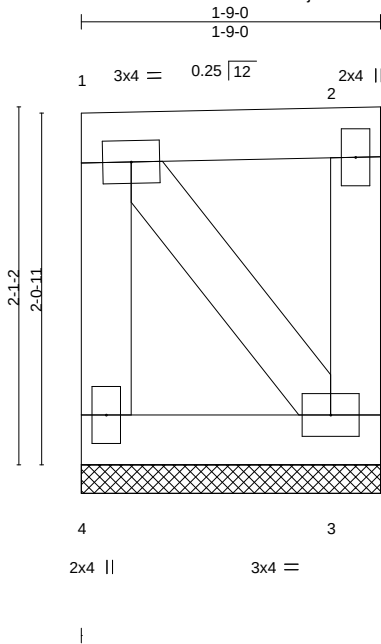
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:33 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-VDdYTAIhhhGE4DgXacOf6UfZM1luxi1zhls3A3zIHLm

- LOAD CASE(S)** Standard
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-52-to-2=-41
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-40-to-2=-28
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-40-to-2=-28
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE01	Blocking Supported	12	1	I50215688
Mill Creek Truss, LLC, Halstead, KS - 67056,					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:35 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93i1-RcllurKyDIWyJXqvh1Q7Bvxlq_6Pd3G9cLAExzIHLk



Scale = 1:13.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.07	Vert(LL) n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT) n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Horz(CT) 0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 10 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-9-0, 3=1-9-0
Max Horz 4=55(LC 44)
Max Uplift 4=233(LC 38), 3=224(LC 41)
Max Grav 4=256(LC 45), 3=244(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-242/258
BOT CHORD 3-4=-241/251
WEBS 1-3=-363/367

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 4 and 224 lb uplift at joint 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-9-0 for 110.0 plf.



February 15,2022

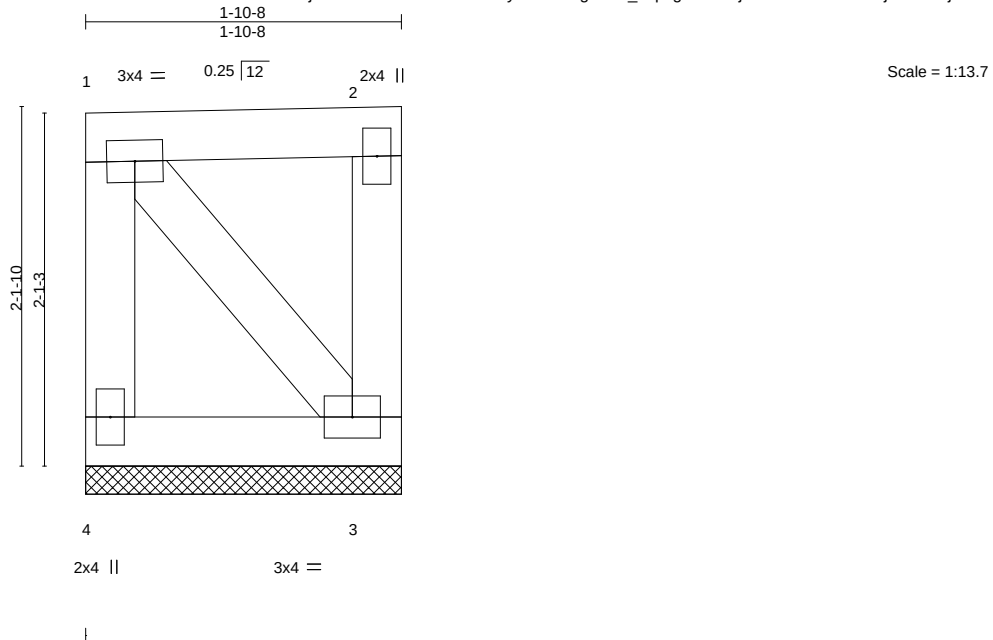
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE02	Blocking Supported	12	1	I50215689
Mill Creek Truss, LLC, Halstead, KS - 67056,					Job Reference (optional)

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ID:6EjRszEEA1occ44RuFMRXly93l1-voJg6BLa_cepXgP5FfxMj6H61EJl84GPN5jmOziHLj



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0		2-0-0	TC	0.07	in (loc)		l/defl	L/d	MT20		197/144	
Snow (Pf/Pg)	13.9/20.0	Plate Grip DOL	1.15	BC	0.05	n/a	-	n/a	999				
TCDL	10.0	Lumber DOL	1.15	WB	0.08	n/a	-	n/a	999				
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-P		Horz(CT)	0.00	3	n/a	n/a			
BCDL	10.0	Code IBC2018/TPI2014											
										Weight: 10 lb	FT = 20%		

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=56(LC 41)
Max Uplift 4=237(LC 38), 3=227(LC 41)
Max Grav 4=262(LC 45), 3=248(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-246/257
BOT CHORD 3-4=-256/265
WEBS 1-3=-374/378

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 4 and 227 lb uplift at joint 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.



February 15,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

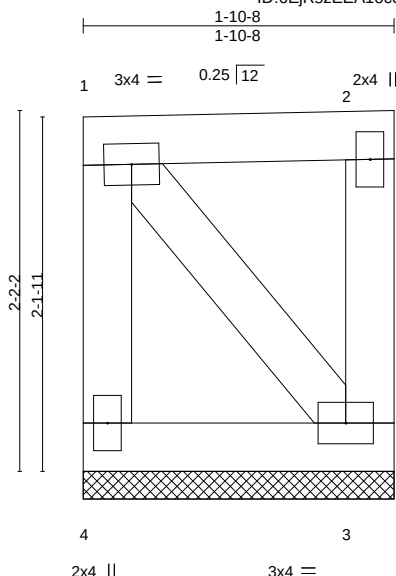
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE03	Blocking Supported	12	1	I50215690
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLy9311-O?12JXMcIvmgZq_lpSSbGKqHjeFWtXVZcwqHJqzHLi



Scale = 1:13.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 10 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=57(LC 40)
Max Uplift 4=243(LC 38), 3=233(LC 41)
Max Grav 4=268(LC 45), 3=254(LC 42)

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

TOP CHORD 1-4=-252/266
BOT CHORD 3-4=-258/268
WEBS 1-3=-381/385

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 4 and 233 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.



February 15, 2022

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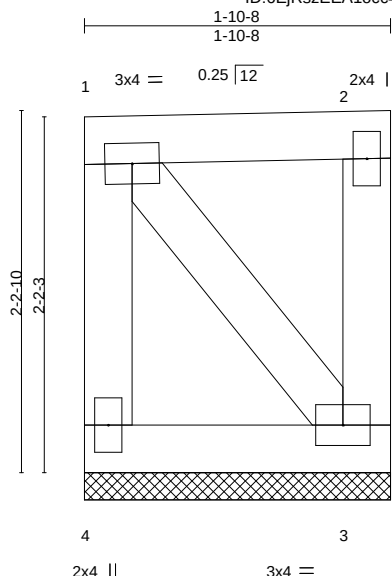
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE04	Blocking Supported	12	1	I50215691
Mill Creek Truss, LLC, Halstead, KS - 67056,					Job Reference (optional)

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ID:6EjRszEEA1occ44RuFMRXLY93I1-KN?pkDNSHX1Oo88gwtV3LvcARL_LRzs3EJNNizIHLg



Scale = 1:14.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 10 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=58(LC 44)
Max Uplift 4=-249(LC 38), 3=-239(LC 41)
Max Grav 4=274(LC 45), 3=260(LC 42)

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

TOP CHORD 1-4=-258/274
BOT CHORD 3-4=-261/270
WEBS 1-3=-389/393

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 4 and 239 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.



February 15, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

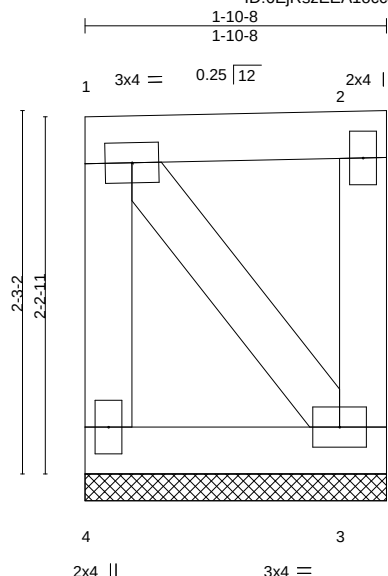
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE05	Blocking Supported	12	1	I50215692
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:42 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLY93I1-kygxMFPLaSPyfbFb?2mzNX7NfNgYogImCY2_1ziHLd



Scale = 1:14.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	Vert(LL) n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT) n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Horz(CT) 0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 10 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=60(LC 40)
Max Uplift 4=-255(LC 38), 3=-245(LC 41)
Max Grav 4=280(LC 45), 3=266(LC 42)

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

TOP CHORD 1-4=-264/283
BOT CHORD 3-4=-263/273
WEBS 1-3=-396/401

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 4 and 245 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.



February 15,2022

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

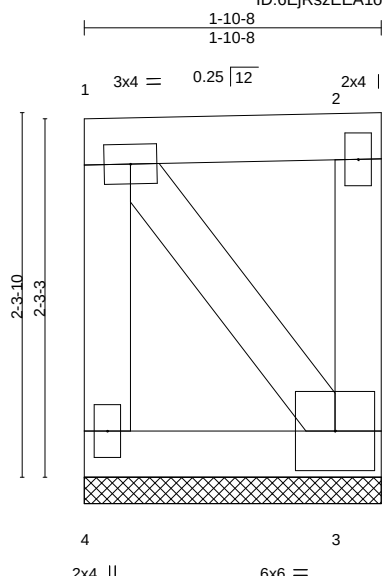
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE06	Blocking Supported	12	1	I50215693
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:44 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly93l1-gLoinwRb63fgvv0ejQ4E2ocTpS280i9bDW183wzHLb



Scale = 1:14.5

LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL) n/a	-	n/a	999		MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT) n/a	-	n/a	999			
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Horz(CT) 0.00	3	n/a	n/a			
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014								
								Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=61(LC 40)
Max Uplift 4=-261(LC 38), 3=-251(LC 41)
Max Grav 4=286(LC 45), 3=273(LC 42)

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

TOP CHORD 1-4=-270/291
BOT CHORD 3-4=-265/275
WEBS 1-3=-404/409

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 4 and 251 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.



February 15, 2022

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

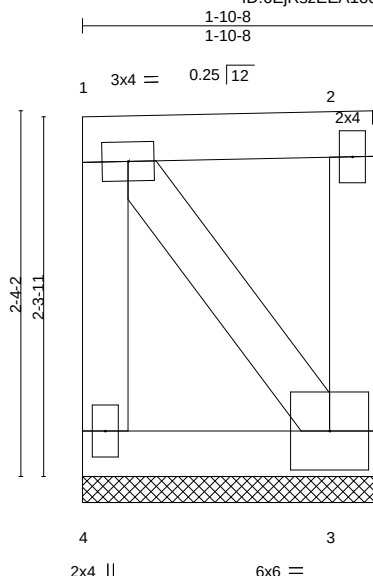
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE07	Blocking Supported	12	1	I50215694
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

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ID:6EjRsZEEA1occ44RuFMRXLY93I1-dkwSCcTrdgV08DA0qr7i7DipFGkbUcdugqWF7ozIHLZ



Scale = 1:14.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=62(LC 13)
Max Uplift 4=-267(LC 38), 3=-257(LC 41)
Max Grav 4=292(LC 45), 3=279(LC 42)

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

TOP CHORD 1-4=-277/300
BOT CHORD 3-4=-267/278
WEBS 1-3=-412/416

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 267 lb uplift at joint 4 and 257 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.



February 15, 2022

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

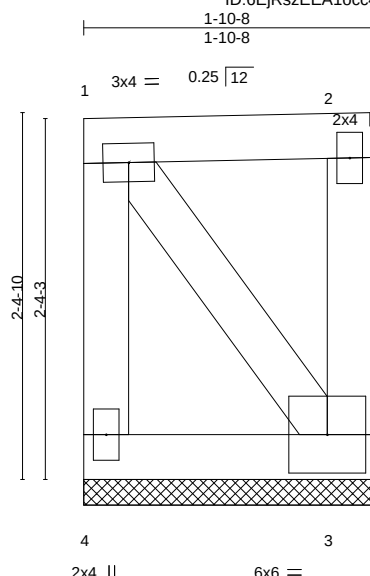
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE08	Blocking Supported	12	1	I50215695
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLy93l1-5wTqQyTTO_1FmNIDOZexgRE_yg4qD3q1vUFofFzIHLy



Scale = 1:15.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL) n/a	-	n/a	999		MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT) n/a	-	n/a	999			
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Horz(CT) 0.00	3	n/a	n/a			
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=63(LC 13)
Max Uplift 4=-274(LC 38), 3=-263(LC 41)
Max Grav 4=299(LC 45), 3=285(LC 42)

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

TOP CHORD 1-4=-283/309
BOT CHORD 3-4=-269/280
WEBS 1-3=-420/424

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 4 and 263 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 110 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 110.0 plf.



February 15,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

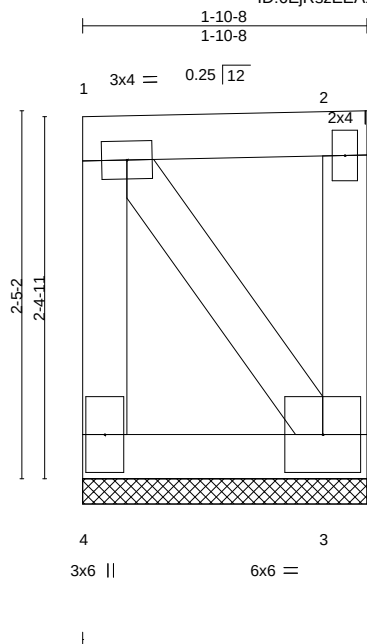
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE09	Blocking Supported	12	1	I50215696
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:13:53 2022 Page 1

ID:6EJRszEEA1occ44RuFMRXLY93I1-w4r5g?YE_qnOUICNlPLwiU?U56ddI4wHQi7tuzIHLS



Scale = 1:15.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P							
BCDL 10.0									Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=65(LC 40)
Max Uplift 4=578(LC 38), 3=564(LC 41)
Max Grav 4=603(LC 45), 3=585(LC 42)

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

TOP CHORD 1-4=-588/616, 1-2=-387/399
BOT CHORD 3-4=-471/482
WEBS 1-3=-796/801

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 578 lb uplift at joint 4 and 564 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



February 15,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

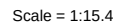


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50215697
B212230-G01R	TGE10	Blocking Supported	12	1	Job Reference (optional)	

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:00 2022 Page 1

ID:6EjRsZEEA1occ44RuFMRXLy93I1-DQml8PddK gPpMEifnN iAHC6vWEmyzyu?v d zIHL



February 15, 2022

WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED WITHIN REFERENCE TAFE MP-1419 (Rev. 3/29/2020) BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.



Building 1

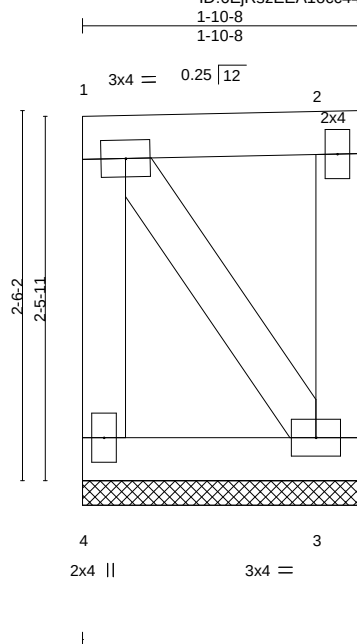
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE11	Blocking Supported	12	1	I50215698
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:01 2022 Page 1

ID:6EjRsZEEA1occ44RuFMRXLy9311-hcK7MkeF5HoGRWpDVuDEOqNqJsSVPC57feY9RziHLK



Scale = 1:15.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=67(LC 13)
Max Uplift 4=49(LC 10), 3=42(LC 11)
Max Grav 4=87(LC 26), 3=79(LC 25)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 4 and 42 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 15,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

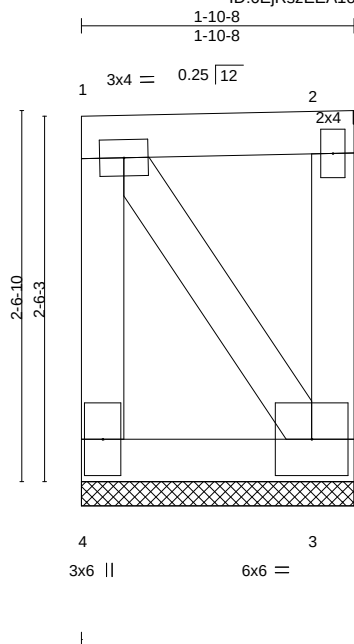
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE12	Blocking Supported	12	1	I50215699
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

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ID:6EjRsZEEA1occ44RuFMRXLy93I1-9ptVZ4fusbw73gO5mCPSnbMX0jAiEqAEMJO5htzIHLJ



Scale: 3/4"=1'

LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.17	Vert(LL) n/a	-	n/a	999		MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT) n/a	-	n/a	999			
TCDL 10.0	Lumber DOL 1.15	WB 0.18	Horz(CT) 0.00	3	n/a	n/a			
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014								
								Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=69(LC 44)
Max Uplift 4=615(LC 38), 3=600(LC 41)
Max Grav 4=640(LC 45), 3=622(LC 42)

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

TOP CHORD 1-4=-624/661, 1-2=-389/401
BOT CHORD 3-4=-478/490
WEBS 1-3=-835/840

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 615 lb uplift at joint 4 and 600 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



February 15,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

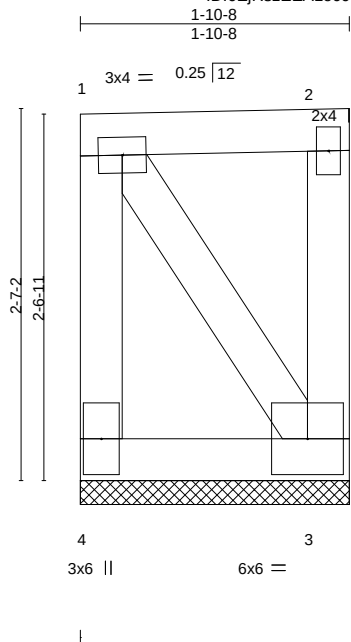
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE13	Blocking Supported	12	1	I50215700
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXly93l1-5B?G_mg8OCARl_YUudRws0RtRWsAikdXpdtCmmzIHLH



Scale: 3/4"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=70(LC 44)
Max Uplift 4=627(LC 38), 3=612(LC 41)
Max Grav 4=652(LC 45), 3=634(LC 42)

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

TOP CHORD 1-4=-636/676, 1-2=-389/402
BOT CHORD 3-4=-480/492
WEBS 1-3=-848/853

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 627 lb uplift at joint 4 and 612 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



February 15, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

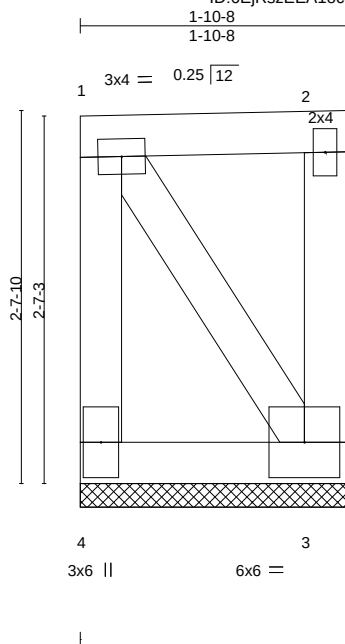
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE14	Blocking Supported	12	1	I50215701
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLy93I1-ZNZeB6hm9WlhW87gSLz9PE_1qwCNRBrh2HclIcZiHLG



Scale = 1:16.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.19	Vert(LL) n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT) n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.18	Horz(CT) 0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=71(LC 44)
Max Uplift 4=639(LC 38), 3=625(LC 41)
Max Grav 4=664(LC 45), 3=646(LC 42)

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

TOP CHORD 1-4=-649/691, 1-2=-390/403
BOT CHORD 3-4=-482/494
WEBS 1-3=-862/867

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 639 lb uplift at joint 4 and 625 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



February 15, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

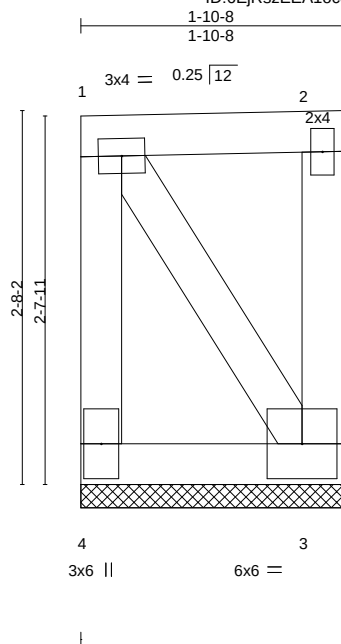
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE15	Blocking Supported	12	1	I50215702
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

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ID:6EjRszEEA10cc44RuFMRLy9311-1a70PSiOwqQYYHis?2UOxRXCvKYcAe1qHxMJqeZiHLF



Scale = 1:16.5

LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=72(LC 13)
Max Uplift 4=651(LC 38), 3=637(LC 41)
Max Grav 4=677(LC 45), 3=658(LC 42)

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

TOP CHORD 1-4=-661/707, 1-2=-390/404
BOT CHORD 3-4=-484/497
WEBS 1-3=-875/880

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 651 lb uplift at joint 4 and 637 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



February 15, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

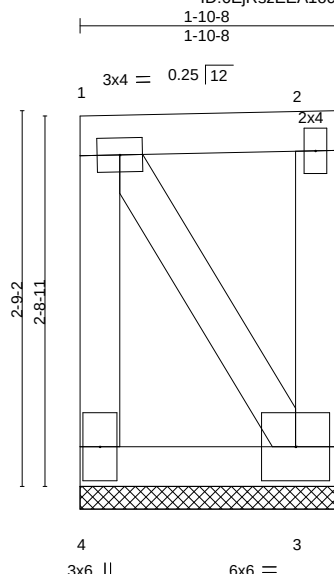
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE16	Blocking Supported	8	1	I50215703
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:10 2022 Page 1

ID:6EjRszEEA1occ44RuFMRLy93I1-wLMXEplv_2w_0v?eEuYK6HhtKxvX6QxQCZKWzPzIHLB



Scale = 1:16.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=75(LC 45)
Max Uplift 4=676(LC 38), 3=662(LC 41)
Max Grav 4=701(LC 45), 3=683(LC 42)

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

TOP CHORD 1-4=-692/737, 1-2=-391/405
BOT CHORD 3-4=-489/502
WEBS 1-3=-902/908

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 676 lb uplift at joint 4 and 662 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



February 15, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

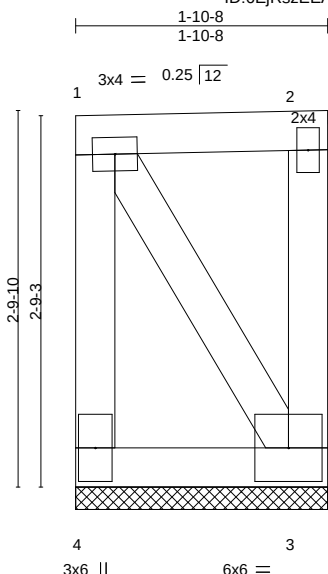
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE17	Blocking Supported	8	1	I50215704
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLY93I1-GJAXIp1obZH7gub1R8VpKPk_ycinh79Lr1HfdzIHL6



Scale = 1:17.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=76(LC 45)
Max Uplift 4=688(LC 38), 3=674(LC 41)
Max Grav 4=714(LC 45), 3=695(LC 42)

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

TOP CHORD 1-4=-708/753, 1-2=-392/406
BOT CHORD 3-4=-491/504
WEBS 1-3=-916/922

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 688 lb uplift at joint 4 and 674 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



February 15, 2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

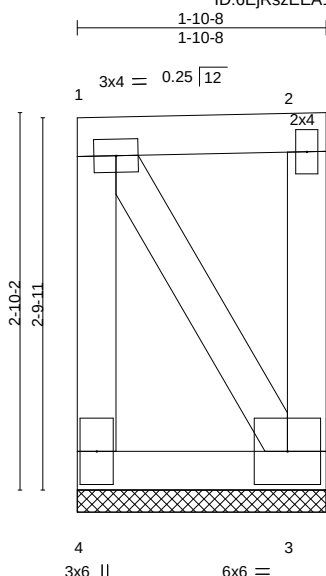
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE18	Blocking Supported	8	1	I50215705
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

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ID:6EjRsZEEA1occ44RuFMRXLy93I1-hurYwYrw5Wxr_7cAiZhCQz1F8AeO_2qb1oGxFyzIHL3



Scale = 1:17.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=77(LC 40)
Max Uplift 4=701(LC 38), 3=687(LC 41)
Max Grav 4=726(LC 45), 3=708(LC 42)

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

TOP CHORD 1-4=-723/769, 1-2=-392/407
BOT CHORD 3-4=-493/507
WEBS 1-3=-930/936

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 701 lb uplift at joint 4 and 687 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



February 15, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

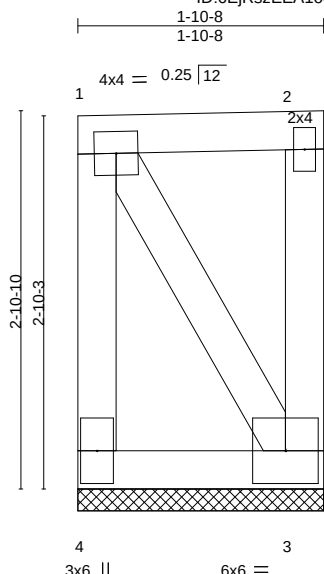
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE19	Blocking Supported	2	1	I50215706
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

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ID:6EjRszEEA10cc44RuFMRXLy93I1-dGzJLEtAd7BZDRmZq_kgWO6bYzKsSyGuV6I2KqzIHL1



Scale = 1:17.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=79(LC 40)
Max Uplift 4=713(LC 38), 3=699(LC 41)
Max Grav 4=739(LC 45), 3=720(LC 42)

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

TOP CHORD 1-4=-739/784, 1-2=-393/408
BOT CHORD 3-4=-495/509
WEBS 1-3=-945/950

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 713 lb uplift at joint 4 and 699 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



February 15,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

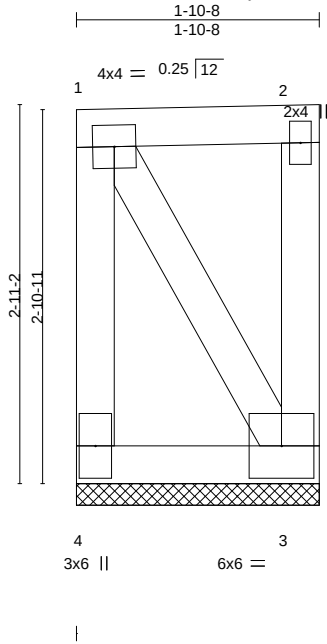


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE20	Blocking Supported	2	1	I50215707
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:21 2022 Page 1
ID:6EjRsZEEA10cc44RuFMRXLY9311-5SXhYauoORJQrbLIOiFv2bfmDNf4BPT1kmUcsHziHL0



Scale = 1:17.8

LOADING (psf)	SPACING-	CS.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.23	Vert(LL) n/a	-	n/a	999		MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT) n/a	-	n/a	999			
TCDL 10.0	Lumber DOL 1.15	WB 0.20	Horz(CT) 0.00	3	n/a	n/a			
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014								
								Weight: 13 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=80(LC 45)
Max Uplift 4=726(LC 38), 3=711(LC 41)
Max Grav 4=751(LC 45), 3=733(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-755/800, 1-2=-394/409
BOT CHORD 3-4=-497/512
WEBS 1-3=-959/964

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 726 lb uplift at joint 4 and 711 lb uplift at joint 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



February 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

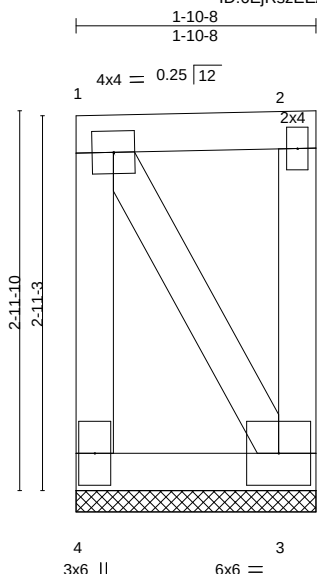
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE21	Blocking Supported	2	1	I50215708
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:23 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLY93l1-1rfRzGv3w2Z84vV8V7HN70k6cBLYfJwKB4zix9ziHL_



Scale = 1:18.0

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.24	Vert(LL) n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT) n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Horz(CT) 0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=81(LC 45)
Max Uplift 4=738(LC 38), 3=724(LC 41)
Max Grav 4=764(LC 45), 3=745(LC 42)

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

TOP CHORD 1-4=-771/816, 1-2=-394/410
BOT CHORD 3-4=-500/514
WEBS 1-3=-973/979

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 738 lb uplift at joint 4 and 724 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



February 15,2022

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

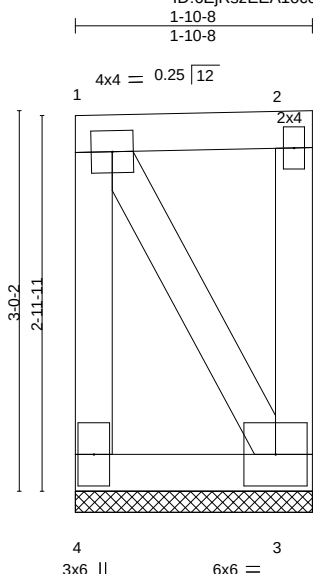
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE22	Blocking Supported	2	1	I50215709
Job Reference (optional)					

Mill Creek Truss, LLC,

Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:24 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-W1DpBcwHhMh?i24K3qocgEGHHahmOm7UQkjGSbzIHKz



Scale = 1:18.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.24	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=82(LC 40)
Max Uplift 4=751(LC 38), 3=737(LC 41)
Max Grav 4=776(LC 45), 3=758(LC 42)

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

TOP CHORD 1-4=-787/832, 1-2=-395/410
BOT CHORD 3-4=-502/517
WEBS 1-3=-988/994

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 751 lb uplift at joint 4 and 737 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



February 15,2022

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

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

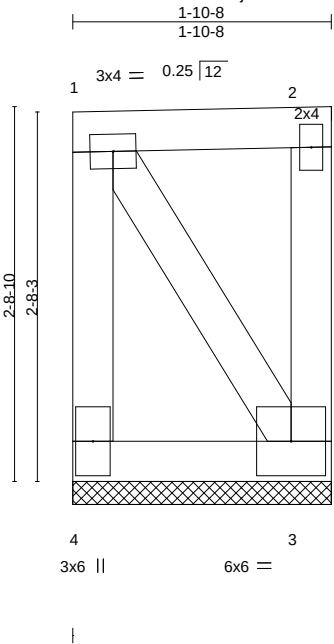


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
B212230-G01R	TGE23	Blocking Supported	2	1	I50215710
Mill Creek Truss, LLC, Halstead, KS - 67056,					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 14 08:14:25 2022 Page 1
ID:6EjRszEEA10cc44RuFMRXLy93I1-_EmCOyxJSfjsJCfWdXKrDRpRd_137DhdeOSp_2zIHky



Scale = 1:16.7

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0		TC	0.20	in (loc)	l/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	13.9/20.0	Plate Grip DOL	1.15	BC	0.10	n/a	-	n/a			
TCDL	10.0	Lumber DOL	1.15	WB	0.19	n/a	-	n/a			
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-P		0.00	3	n/a			
BCDL	10.0	Code IBC2018/TPI2014									
										Weight: 12 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=74(LC 40)
Max Uplift 4=664(LC 38), 3=649(LC 41)
Max Grav 4=689(LC 45), 3=671(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-676/722, 1-2=-391/405
BOT CHORD 3-4=-486/499
WEBS 1-3=-889/894

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 664 lb uplift at joint 4 and 649 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



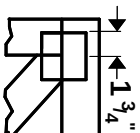
February 15,2022

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

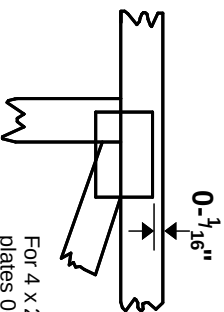
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless X, Y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

*** Plate location details available in MITek 20120 software or upon request.**

PLATE SIZE

4 X 4

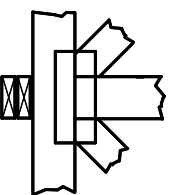
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



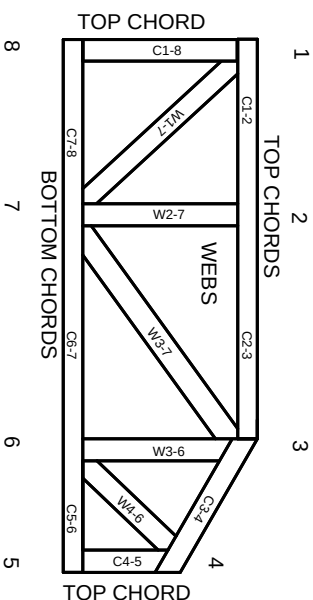
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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Mitek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



Structural Engineers – Since 1957

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

BOB D. CAMPBELL & CO., INC.

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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: March 8, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 2 Roof and Floor Truss Shop Drawings	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102



Employee-Owned

TRANSMITTAL

Kolten Ragan, Project Engineer
Brinkmann Constructors
11101 Switzer Road, Suite 310
Overland Park, KS 66210

Date: 3/1/2022

To:
TR,i Architects
Attn: Michaela Silva
1790 S Brentwood Blvd
St. Louis, MO 63144

Re: **Vanguard Villas**
2100 NW Lowenstein Dr.
Lee's Summit, MO 64081
Job #: 1399

We are sending:

- ☐ Product Data
- ☐ Reports
- ☒ Shop Drawings
- ☐ Samples
- ☐ Other

Transmitted as checked:

- ☒ For Approval
- ☐ For Your Use
- ☐ As Requested
- ☐ Approved as Submitted
- ☐ Other

Transmitted via:

- ☒ Via email (PDF)
- ☐ Copies to follow (USPS/Ground)

Submittal Number	Description	Date Submitted	Due Date
061753-3	Group 2 Roof & Floor Truss - SD	3/1/2022	3/8/2022

REVIEWED ☒

DATE RECIEVED:

REVIEWED AS NOTED ☐

DATE REVIEWED: 3/14/2022

REVISE AND RESUBMIT ☐

REVIEWED BY: michaela.silva

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

TRi

ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Brinkmann Approval

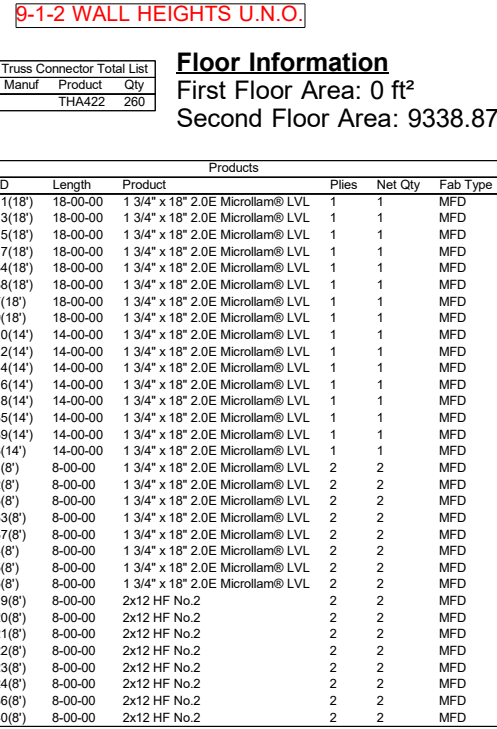
Submittals bearing this stamp have been verified or will be verified as to materials, field measurements and construction criteria related thereto and have been coordinated with the Contract Documents. The Sub-contractor is responsible to the General Contractor for dimensions to be confirmed and correlated at the job site, and for information that pertains to the fabrication process or to the technique of construction and for coordination of the work with all trades.

By: Kolten Ragan

Date: 3/1/2022

Brinkmann Comments in Green

8-Plex Building



DO NOT Erect BWRDS/Upside Down, Cut, Alter, Installed Trusses!

SHOP DRAWING REVIEW REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS	
☐	APPROVED
☐	FURNISH AS CORRECTED
☐	REJECTED, REVISE & RESUBMIT
☐	RETURNED NOT REVIEWED
☒	REVIEWED
<i>REFER TO DEFINITIONS IN ATTACHED COMMENTARY</i> Bob D. Campbell & Co., Inc. STRUCTURAL ENGINEERS	
DATE	03/08/2022
BY	MJF

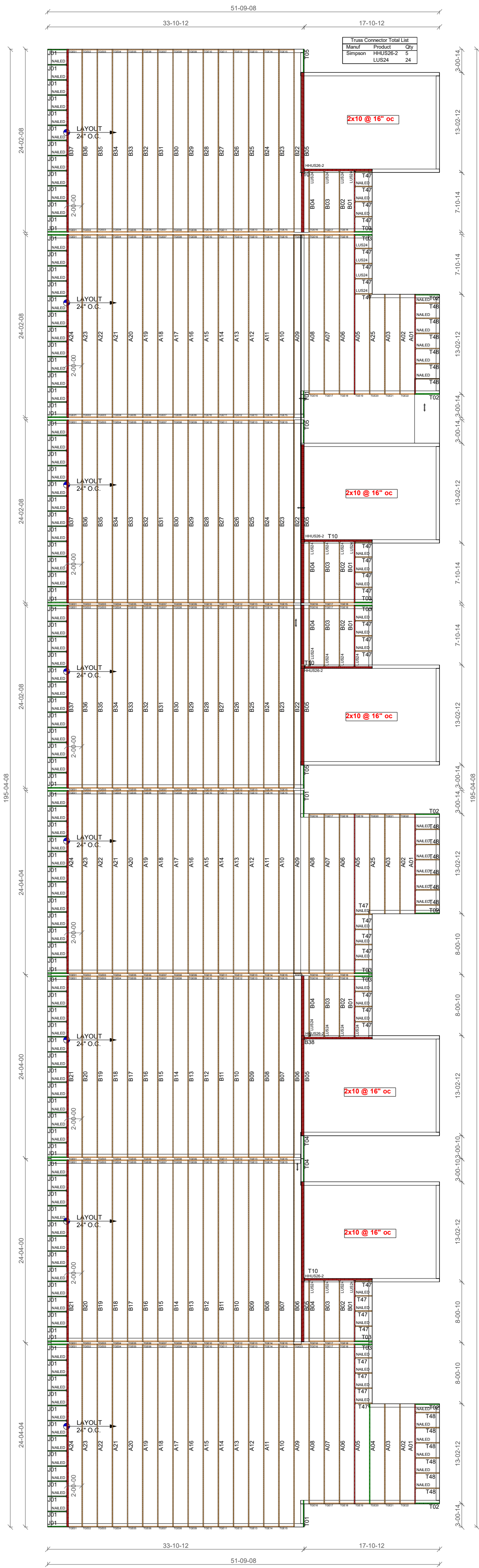
3363 S Halstead Rd
Halstead, KS 67056
Office: 316-830-6108

Thank you for giving us the opportunity to serve you.
We appreciate your business and the
confidence you have placed in us.

Please call us if we can be of further assistance.

8-Plex Building

Roof Information
Roof Area: 9279.9
Ridge Line: 0
Hip Line: 0
Horiz Eave Line: 5
Raked Eave Line: 3
Valley Line: 0



DO NOT Erect BWRDS/Upside Down, Cut, Alter, Installed Trusses!

 NOTE: Yellow ID Tag Lot / Front of Truss Left/Right/Bottom of Truss	 mill truss Creek CR Building Designs for Our Partners	Job Name: Structure Ref #: Designer: OT Ref #: Status: Date: Order				Model Name: Address: Subdivision: Lot / Blk: Lot	
		Thank you for giving us the opportunity to serve you. We appreciate your business and the confidence you have placed in us.				Please call us if we can be of further assistance.	
		Brinkmann Constructors					
		G02R					
		Juan Quiroz				Lee Summit, Mo	



RE: J220197-G02F - Brinkmann Constructors

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

Site Information:

Project Customer: Valued customer Project Name: BRINKMANN CONSTRUCTORS
Lot/Block: Subdivision:
Model:

Address: 2100 NW Lowenstein Dr
City: Lee Summit State: Mo

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IBC2018/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: N/A mph Design Method: N/A
Roof Load: N/A psf Floor Load: 75.0 psf

Mean Roof Height (feet): N/A Exposure Category: N/A

No.	Seal#	Truss Name	Date
1	I50440352	F02	2/25/22
2	I50440353	F03	2/25/22
3	I50440354	F11	2/25/22
4	I50440355	F12	2/25/22
5	I50440356	F13	2/25/22
6	I50440357	F14	2/25/22
7	I50440358	F15	2/25/22
8	I50440359	F16	2/25/22
9	I50440360	F17	2/25/22
10	I50440361	F18	2/25/22
11	I50440362	F18G	2/25/22
12	I50440363	F19	2/25/22
13	I50440364	F19G	2/25/22
14	I50440365	F21	2/25/22
15	I50440366	F22	2/25/22
16	I50440367	F23	2/25/22
17	I50440368	F24	2/25/22
18	I50440369	F25	2/25/22
19	I50440370	F26	2/25/22
20	I50440371	F27	2/25/22
21	I50440372	F28	2/25/22
22	I50440373	F28G	2/25/22
23	I50440374	F29	2/25/22
24	I50440375	F29G	2/25/22
25	I50440376	L11	2/25/22
26	I50440377	L21	2/25/22

SHOP DRAWING REVIEW
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS
☐ APPROVED ☐ FURNISH AS CORRECTED ☐ REJECTED. REVISE & RESUBMIT ☐ RETURNED NOT REVIEWED ☒ REVIEWED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc. STRUCTURAL ENGINEERS
DATE: 03/08/2022 BY: MJF

REVIEWED ☒ DATE RECEIVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 3/14/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mill Creek Truss, LLC.

Truss Design Engineer's Name: Johnson, Andrew
My license renewal date for the state of Missouri is December 31, 2023.

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



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com



February 25, 2022

Building 2

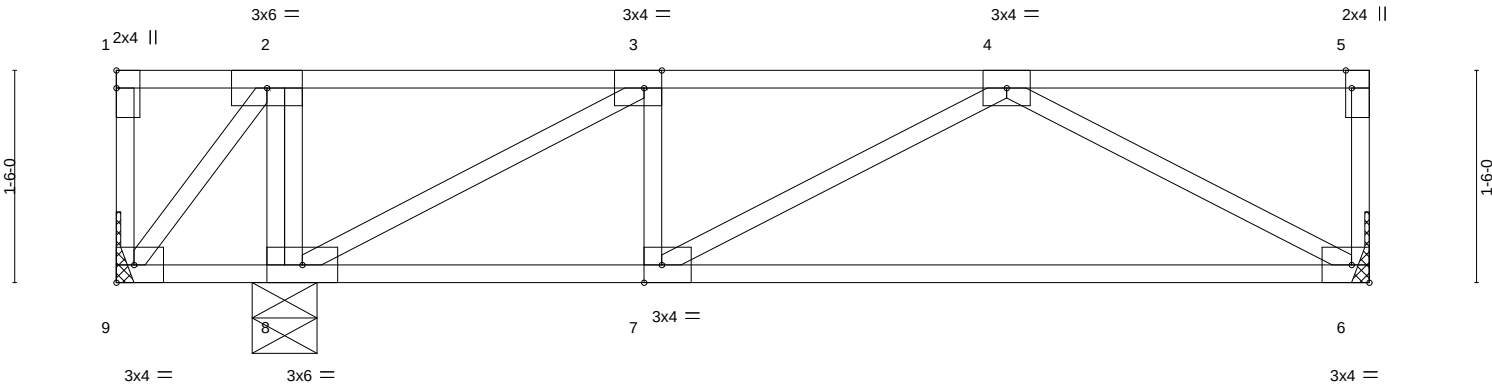
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F02	Floor	72	1	IS0440352
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:12 2022 Page 1
ID:fD9Zq7yDGZzS6mlyxxkdH_ziyi7-wVrESN_hyyldkmdRhTCFIBOGESeg6AurpBQwzhuFP



Scale = 1:16.3



		1-2-4		8-10-4								
		1-2-4		7-8-0								
Plate Offsets (X,Y)-- [3:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge]												
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.01	6-7	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.09	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IBC2018/TPI2014		Matrix-P						Weight: 38 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 9=Mechanical, 6=Mechanical, 8=0-5-8
Max Uplift 9=-222(LC 4)
Max Grav 6=343(LC 1), 8=721(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-393/0
BOT CHORD 7-8=0/393, 6-7=0/417
WEBS 2-8=-407/0, 2-9=0/274, 4-6=-476/0, 3-8=-641/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=222.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



February 25,2022

Building 2

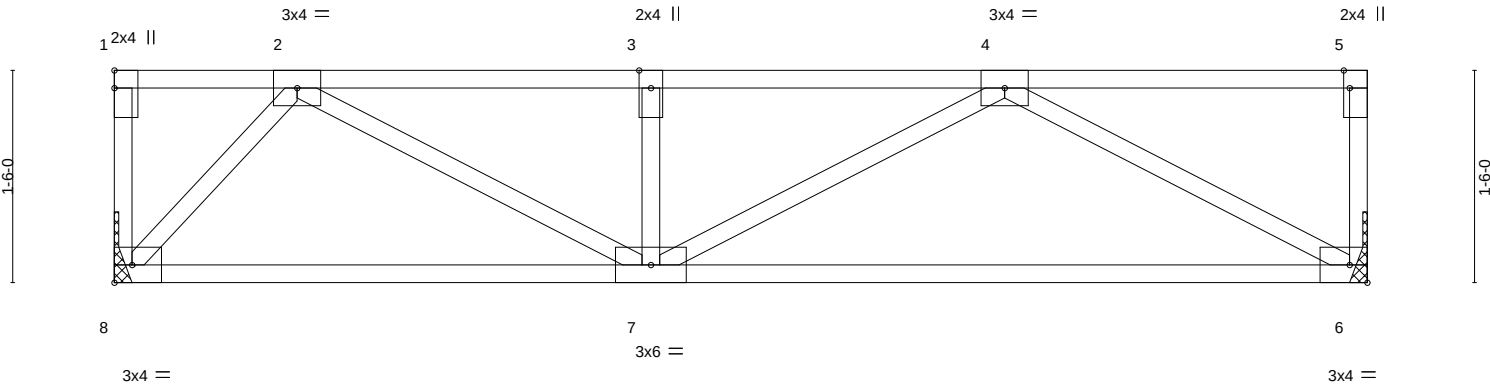
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440353
J220197-G02F	F03	Floor	8	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:13 2022 Page 1
ID:fD9Zq7yDGZzS6mlyxxkdH_ziyi7-OiP8RoOdSG49FuKzB9CikTIL74Y4N7EJ6VZkyMzhuFO



Scale = 1:16.3



0-1-8 0-1-8		8-10-4 8-8-12	
Plate Offsets (X,Y)--		[5:0-1-8,Edge]	
LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL 1.00	TC 0.25	Vert(LL) -0.01 7 >999 480
TCDL 25.0	Lumber DOL 1.00	BC 0.33	Vert(CT) -0.09 6-7 >999 360
BCLL 0.0	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.01 6 n/a n/a
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	
			PLATES GRIP
			MT20 197/144
			Weight: 36 lb FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2(flat)		
REACTIONS. (size) 6=Mechanical, 8=Mechanical			
Max Grav 6=436(LC 1), 8=436(LC 1)			
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD 2-3=-731/0, 3-4=-731/0			
BOT CHORD 7-8=0/354, 6-7=0/587			
WEBS 4-6=-670/0, 2-7=0/430, 2-8=-531/0			

NOTES-

1) Refer to girder(s) for truss to truss connections.

2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.



February 25,2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

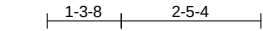


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F11	Floor	64	1	ISO440354

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:13 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-OiP8RoOdSG49FuKzB9CikTlBe4TFN1j6VZkyMzhuFO



Scale = 1:40.2

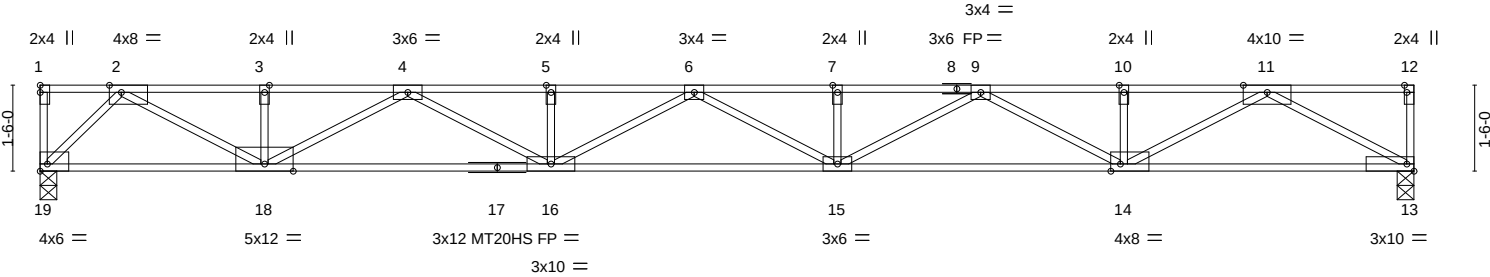


Plate Offsets (X,Y)--		[2:0-2-8,Edge], [12:0-1-8,Edge], [14:0-2-0,Edge], [19:Edge,0-1-8]	
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.85
TCDL 25.0	Lumber DOL	1.00	BC 0.67
BCLL 0.0	Rep Stress Incr	YES	WB 0.55
BCDL 10.0	Code	IBC2018/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.38 15-16	>753	480
Vert(CT)	-0.74 15-16	>389	360
Horz(CT)	0.10 13	n/a	n/a
PLATES	GRIP		
MT20	197/144		
MT20HS	148/108		
Weight: 93 lb	FT = 20%F, 11%E		

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF 2100F 1.8E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	
REACTIONS.	
(size) 13=0-3-8, 19=0-3-8	
Max Grav 13=1193(LC 1), 19=1193(LC 1)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-2845/0, 3-4=-2845/0, 4-5=-4866/0, 5-6=-4866/0, 6-7=-5071/0, 7-9=-5071/0, 9-10=-3471/0, 10-11=-3471/0	
BOT CHORD 18-19=0/1124, 16-18=0/4056, 15-16=0/5170, 14-15=0/4474, 13-14=0/1960	
WEBS 11-13=-2237/0, 11-14=0/1724, 9-14=-1145/0, 9-15=0/681, 6-16=-348/0, 4-16=0/924, 4-18=-1381/0, 2-18=0/1965, 2-19=-1601/0	

NOTES-

1) All plates are MT20 plates unless otherwise indicated.

2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F12	Floor	4	1	ISO440355
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:14 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-suyWf8PFDaC0t2v9lsjxHgqTxTuO6UHTL9IIUozhuFN

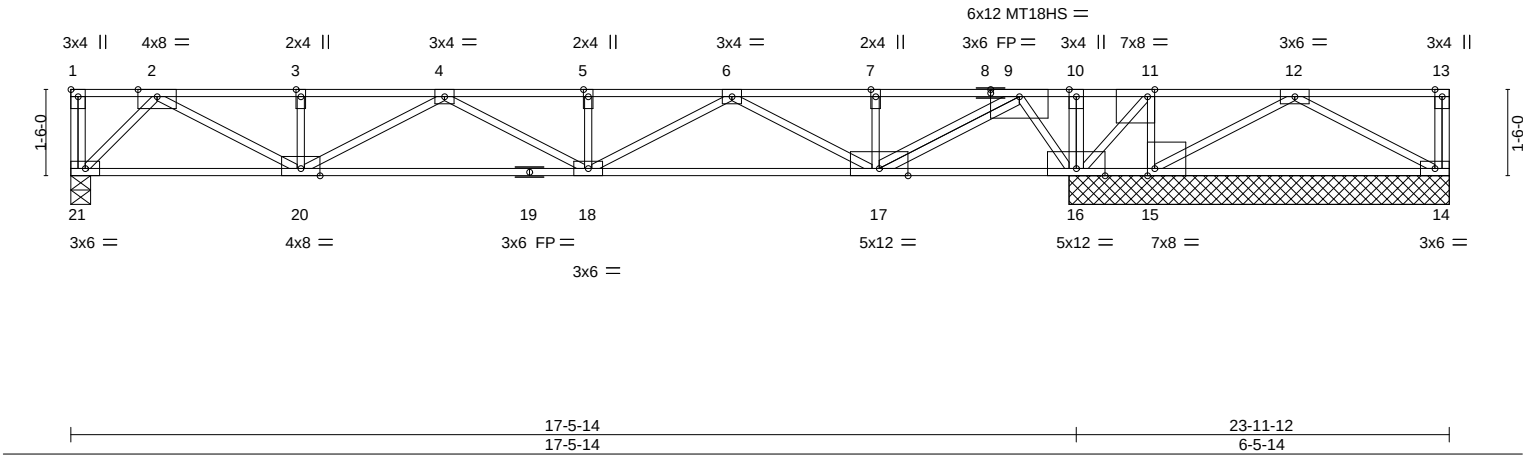


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [9:Edge,0-1-8], [11:0-1-8,Edge], [15:0-1-8,Edge]																	
LOADING (psf)		SPACING-		1-4-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL		1.00		TC 0.43		Vert(LL)		-0.06 18		>999		480		MT20		197/144	
TCDL	25.0	Lumber DOL		1.00		BC 0.32		Vert(CT)		-0.18 17-18		>999		360		MT18HS		197/144	
BCLL	0.0	Rep Stress Incr		NO		WB 0.53		Horz(CT)		0.02 16		n/a		n/a					
BCDL	10.0	Code IBC2018/TPI2014				Matrix-S										Weight: 113 lb		FT = 20%F, 11%E	

LUMBER-	BRACING-
TOP CHORD 2x4 DF 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 DF 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 21=0-4-2, 14=6-7-6, 15=6-7-6, 16=6-7-6
Max Uplift 14=-232(LC 1), 15=-958(LC 1)
Max Grav 21=849(LC 1), 16=3973(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1892/0, 3-4=-1892/0, 4-5=-2662/0, 5-6=-2662/0, 6-7=-1585/0, 7-9=-1512/0,
9-10=0/3403, 10-11=0/3403, 11-12=0/1742
BOT CHORD 20-21=0/796, 18-20=0/2474, 17-18=0/2333, 16-17=-1754/0, 15-16=-1742/0,
14-15=-645/0
WEBS 2-21=-1125/0, 2-20=0/1252, 4-20=-664/0, 6-18=0/375, 6-17=-849/0, 7-17=-1475/0,
9-17=0/3791, 12-14=0/732, 12-15=-1252/0, 11-15=0/1614, 11-16=-2421/0, 9-16=-2649/0

- NOTES-
- 1) All plates are MT20 plates unless otherwise indicated.
 - 2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=232, 15=958.
 - 3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 4) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87
Concentrated Loads (lb)
Vert: 7=-1260

2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87
Concentrated Loads (lb)
Vert: 7=-1260



February 25,2022

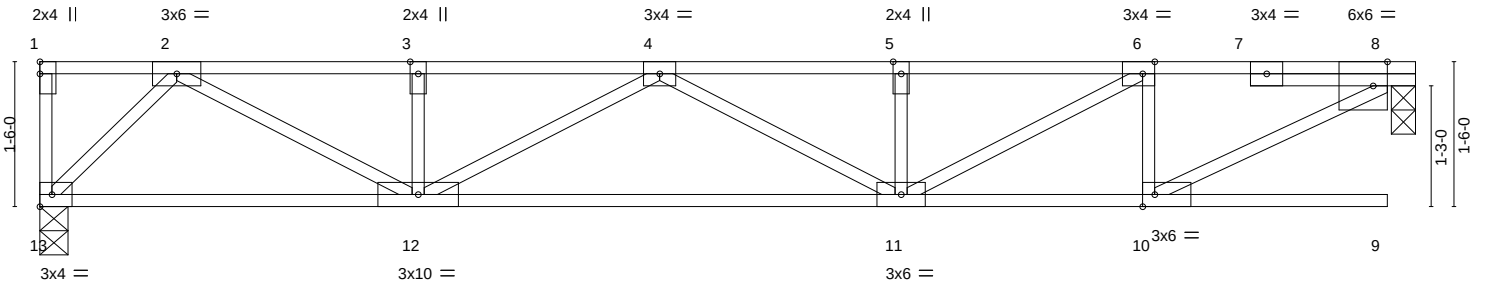
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F13	Floor	4	1	IS0440356
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:15 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-K4WusUQt_tKtUCTLJaFAquNhotAer_Tcap2r1EzhuFM



										13-11-6				14-2-14					
Plate Offsets (X,Y)--										13-11-6				0-3-8					
[6:0-1-8,Edge], [8:0-1-12,Edge], [10:0-1-8,Edge]																			
LOADING (psf)		SPACING-		1-4-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL 40.0		Plate Grip DOL		1.00		TC 0.24		Vert(LL)		-0.06 11-12		>999		480		MT20		197/144	
TCDL 25.0		Lumber DOL		1.00		BC 0.60		Vert(CT)		-0.19 9		>892		360					
BCLL 0.0		Rep Stress Incr		YES		WB 0.35		Horz(CT)		-0.00 8		n/a		n/a					
BCDL 10.0		Code		IBC2018/TPI2014		Matrix-S										Weight: 57 lb		FT = 20%F, 11%E	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 8=0-3-0, 13=0-3-8
Max Grav 8=694(LC 1), 13=694(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1457/0, 3-4=-1457/0, 4-5=-1660/0, 5-6=-1660/0, 6-8=-1087/0
BOT CHORD 12-13=0/634, 11-12=0/1753, 10-11=0/1083
WEBS 2-13=-903/0, 2-12=0/940, 4-12=-338/0, 6-11=0/654, 6-10=-513/0, 8-10=0/1227

- NOTES-
- 1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 4) CAUTION, Do not erect truss backwards.



February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F14	FLOOR	4	1	150440357
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:16 2022 Page 1
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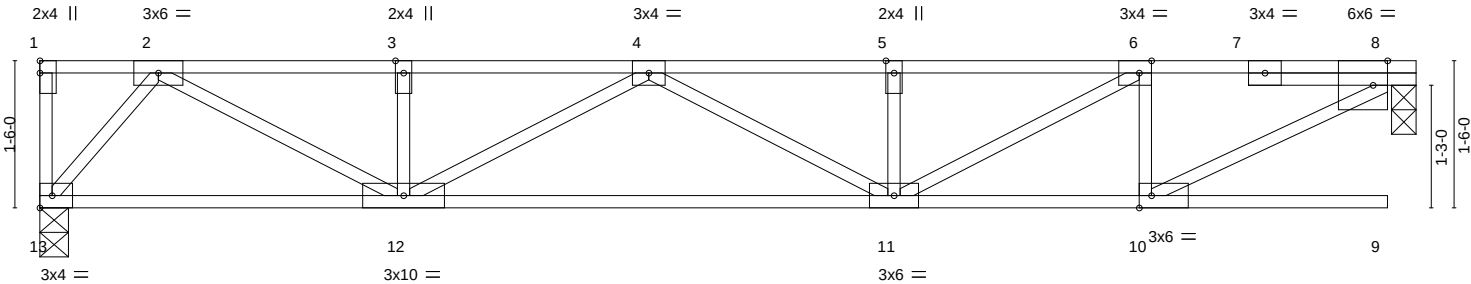


Plate Offsets (X,Y)--	[6:0-1-8,Edge], [8:0-1-12,Edge], [10:0-1-8,Edge]
-----------------------	--

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.23	Vert(LL)	-0.05 11-12	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL 1.00	BC 0.59	Vert(CT)	-0.19 9	>880	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.34	Horz(CT)	-0.00 8	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S					Weight: 57 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 8=0-3-0, 13=0-3-8
Max Grav 8=684(LC 1), 13=684(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1380/0, 3-4=-1380/0, 4-5=-1621/0, 5-6=-1621/0, 6-8=-1067/0
BOT CHORD 12-13=0/540, 11-12=0/1695, 10-11=0/1064
WEBS 2-13=-843/0, 2-12=0/959, 4-12=-359/0, 6-11=0/633, 6-10=-504/0, 8-10=0/1205

- NOTES-
- 1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 4) CAUTION, Do not erect truss backwards.



February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Building 2

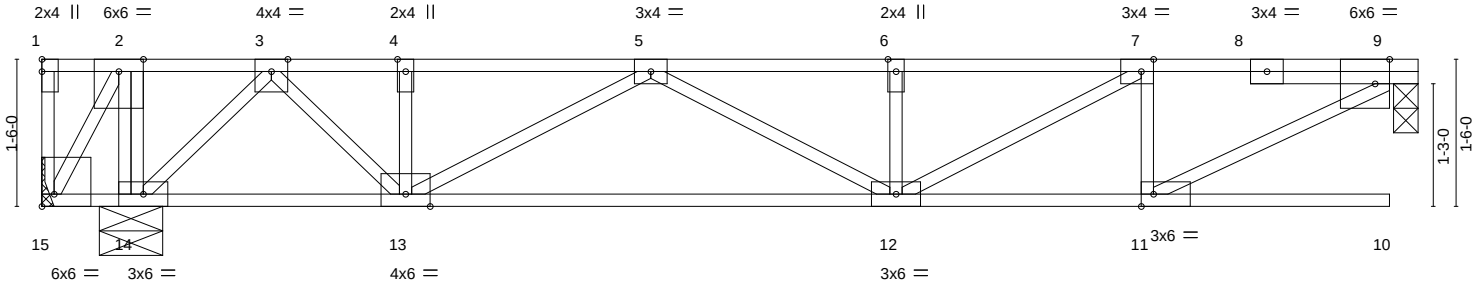
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440358
J220197-G02F	F15	FLOOR	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:16 2022 Page 1
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Scale = 1:23.5



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

0-10-15	13-8-14	14-0-6
0-10-15	12-9-15	0-3-8
Plate Offsets (X,Y)-- [7:0-1-8,Edge], [9:0-1-12,Edge], [11:0-1-8,Edge], [15:Edge,0-1-8]		

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.28	Vert(LL)	-0.03	12-13	>999	480	MT20
TCDL 25.0	Lumber DOL	1.00	BC 0.42	Vert(CT)	-0.19	10	>824	360	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.39	Horz(CT)	-0.00	9	n/a	n/a	
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						
									Weight: 60 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 9=0-3-0, 15=Mechanical, 14=0-7-12
Max Uplift 15=-1179(LC 4)
Max Grav 9=563(LC 1), 14=1960(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/716, 3-4=-486/0, 4-5=-486/0, 5-6=-1178/0, 6-7=-1178/0, 7-9=-851/0
BOT CHORD 14-15=-716/0, 12-13=0/1034, 11-12=0/847
WEBS 2-14=-1297/0, 2-15=0/1366, 9-11=0/960, 7-11=-389/0, 7-12=0/376, 5-13=-625/0, 3-14=-918/0, 3-13=0/766

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=1179.
 - 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 8) CAUTION, Do not erect truss backwards.



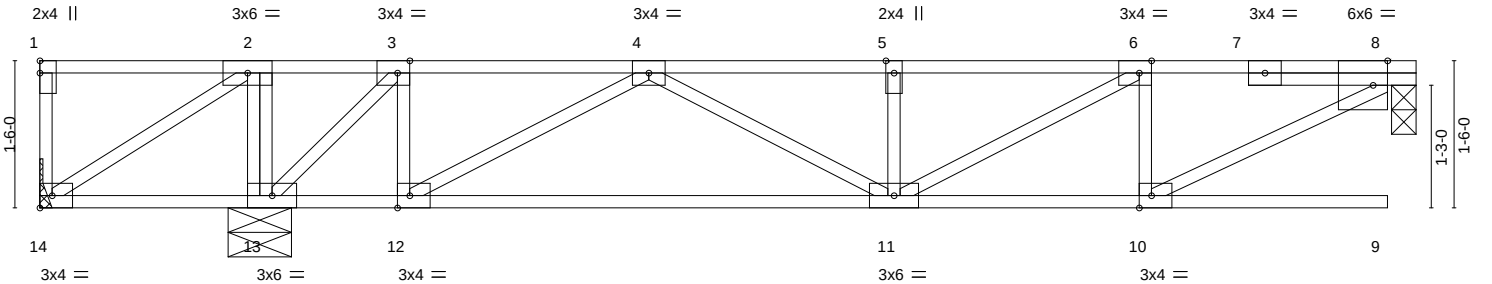
February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440359
J220197-G02F	F16	FLOOR	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:17 2022 Page 1
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2-2-15				13-8-14				14-0-6	
2-2-15				11-5-15				0-3-8	
Plate Offsets (X,Y)-- [3:0-1-8,Edge], [6:0-1-8,Edge], [8:0-1-12,Edge], [10:0-1-8,Edge], [12:0-1-8,Edge]									
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL 40.0		Plate Grip DOL 1.00		TC 0.32		Vert(LL) -0.02 11 >999 480		MT20	197/144
TCDL 25.0		Lumber DOL 1.00		BC 0.38		Vert(CT) -0.19 9 >743 360			
BCLL 0.0		Rep Stress Incr YES		WB 0.23		Horz(CT) -0.00 8 n/a n/a			
BCDL 10.0		Code IBC2018/TPI2014		Matrix-S				Weight: 59 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.
WEBS 2x4 SPF No.2(flat)	
REACTIONS. (size) 8=0-3-0, 14=Mechanical, 13=0-7-12	
Max Uplift 14=-353(LC 4)	
Max Grav 8=498(LC 4), 13=1167(LC 1)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=0/620, 4-5=-944/0, 5-6=-944/0, 6-8=-736/0	
BOT CHORD 13-14=-620/0, 11-12=0/684, 10-11=0/733	
WEBS 2-13=-568/0, 2-14=0/734, 8-10=0/830, 6-10=-329/0, 4-11=0/297, 4-12=-763/0, 3-12=0/427, 3-13=-878/0	

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=-353.
 - 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 7) CAUTION, Do not erect truss backwards.



February 25,2022

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



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440360
J220197-G02F	F17	FLOOR	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:18 2022 Page 1
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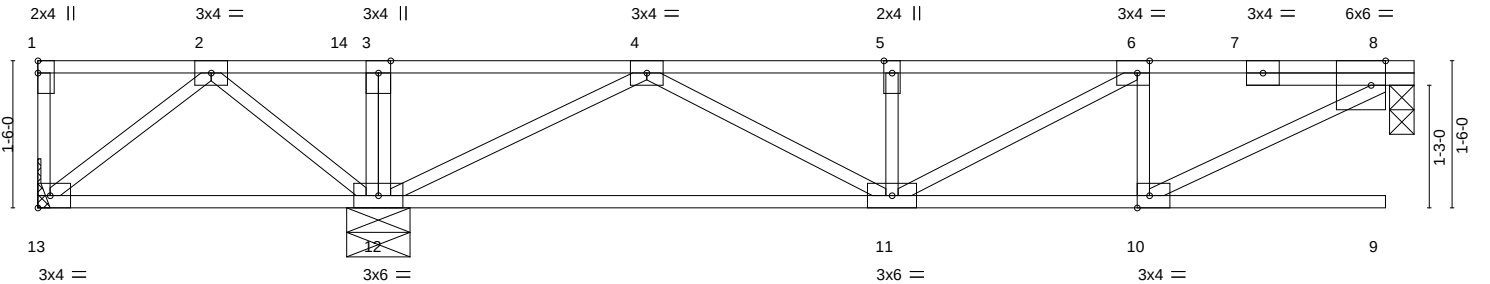
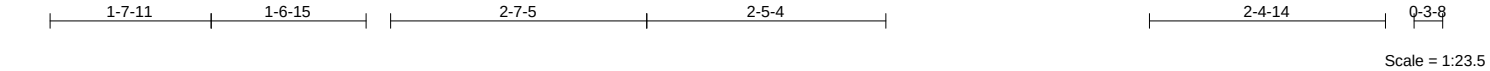


Plate Offsets (X,Y)--	3-5-11 3-5-11	13-8-14 10-3-3	14-0-6 0-3-8
	[6:0-1-8,Edge], [8:0-1-12,Edge], [10:0-1-8,Edge]		

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.34	Vert(LL)	-0.02	11	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.36	Vert(CT)	-0.19	9	>660	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.21	Horz(CT)	-0.00	8	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						Weight: 58 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS 2x4 SPF No.2(flat)	

REACTIONS.	(size) 8=0-3-0, 12=0-7-12, 13=Mechanical
	Max Uplift 13=-133(LC 4)
	Max Grav 8=441(LC 4), 12=975(LC 1), 13=63(LC 3)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=0/485, 3-4=0/489, 4-5=-733/0, 5-6=-733/0, 6-8=-634/0
BOT CHORD	11-12=0/372, 10-11=0/630
WEBS	8-10=0/714, 6-10=-275/0, 4-11=0/416, 4-12=-956/0, 2-13=0/276, 2-12=-427/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=133.
 - 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 7) CAUTION, Do not erect truss backwards.



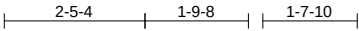
February 25,2022

Building 2

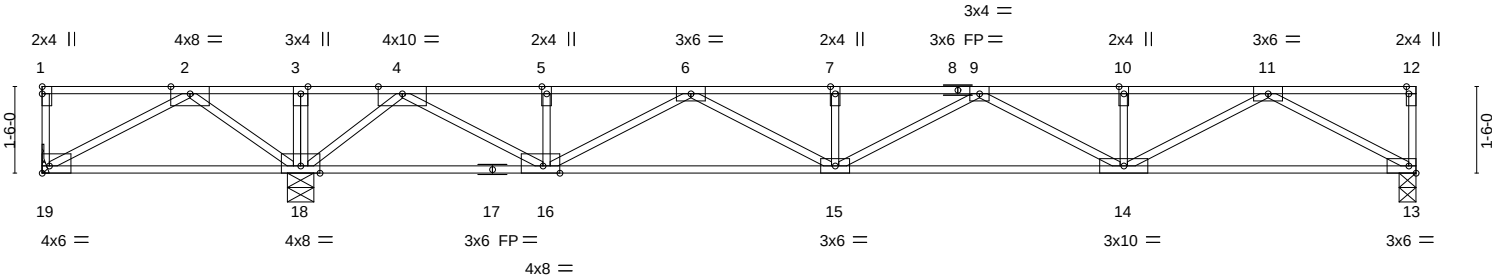
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F18	Floor	8	1	ISO440361

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:18 2022 Page 1
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Scale = 1:39.9



4-5-12		23-9-10			
4-5-12		19-3-14			
Plate Offsets (X,Y)-- [12:0-1-8,Edge], [16:0-3-8,Edge], [19:Edge,0-1-8]					
LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.82	Vert(LL) -0.12 14-15 >999 480	MT20	197/144
TCDL 25.0	Lumber DOL 1.00	BC 0.73	Vert(CT) -0.23 14-15 >984 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.03 13 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S		Weight: 94 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 13=0-3-8, 18=0-5-8, 19=Mechanical
Max Uplift 19=-633(LC 4)
Max Grav 13=795(LC 4), 18=2096(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/2338, 3-4=0/2338, 4-5=-533/0, 5-6=-533/0, 6-7=-2187/0, 7-9=-2187/0, 9-10=-2028/0, 10-11=-2028/0
BOT CHORD 18-19=-1251/0, 16-18=-1015/0, 15-16=0/1557, 14-15=0/2307, 13-14=0/1237
WEBS 2-19=0/1428, 2-18=-1468/0, 11-13=-1412/0, 11-14=0/903, 9-14=-318/0, 6-15=0/722, 6-16=-1171/0, 4-16=0/1749, 4-18=-1681/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=633.
 - 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

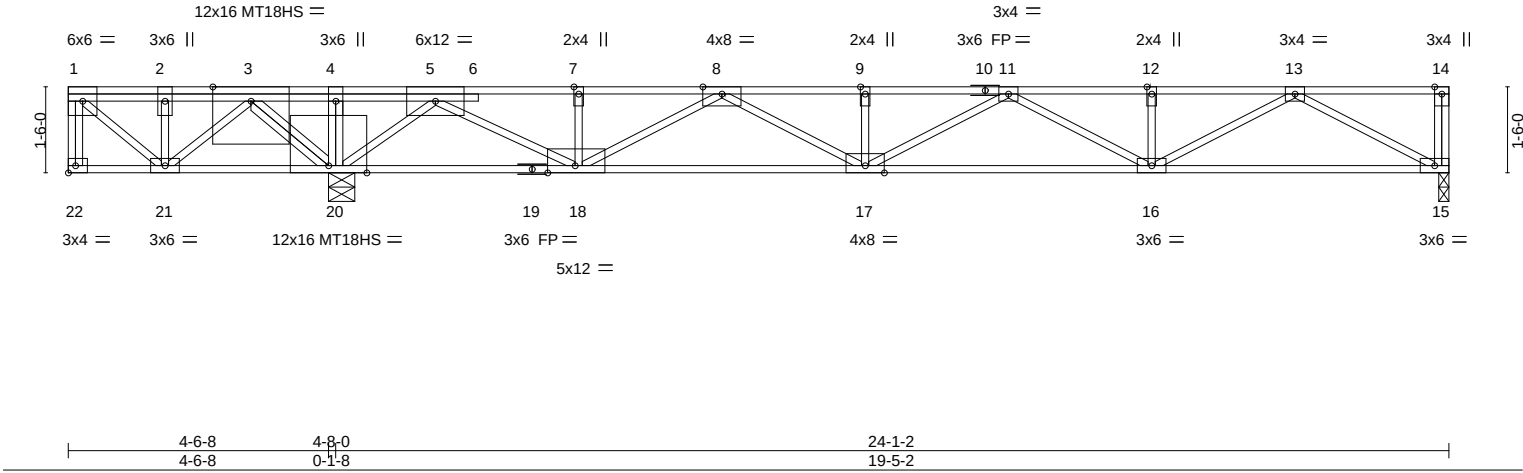


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F18G	Floor Special	4	1	ISO440362
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:19 2022 Page 1
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.51	in (loc) l/defl L/d	MT20 197/144	197/144
TCDL 25.0	Lumber DOL 1.00	BC 0.88	Vert(LL) -0.14 17 >999 480	MT18HS 197/144	
BCLL 0.0	Rep Stress Incr NO	WB 0.67	Vert(CT) 0.12 17 >999 360		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Horz(CT) -0.05 15 n/a n/a		
Weight: 116 lb					FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 DF 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF 2100F 1.8E(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 20=0-5-8, 15=0-2-2
Max Grav 20=6837(LC 1), 15=570(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=0/6113, 4-5=0/6113, 5-7=0/3504, 7-8=0/3504, 8-9=536/1484, 9-11=536/1484,
11-12=1216/298, 12-13=1216/298
BOT CHORD 20-21=410/0, 18-20=4977/0, 17-18=2423/0, 16-17=813/1075, 15-16=62/844
WEBS 4-20=271/0, 13-15=958/71, 13-16=269/424, 11-16=0/589, 11-17=765/0, 8-17=0/1254,
8-18=1700/0, 5-18=0/2388, 5-20=2156/0, 3-21=0/454, 3-20=7742/0

- NOTES-
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.

- LOAD CASE(S) Standard
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-14=-87
Concentrated Loads (lb)
Vert: 3=-5000
 - Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-14=-87
Concentrated Loads (lb)
Vert: 3=-5000
 - 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-87, 4-14=-33



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F18G	Floor Special	4	1	I50440362
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:19 2022 Page 2
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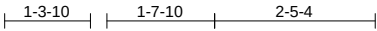
- LOAD CASE(S)** Standard
- Concentrated Loads (lb)
Vert: 3=-5000
 - 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-33, 4-14=-87
 - Concentrated Loads (lb)
Vert: 3=-5000
 - 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-87, 4-14=-33
 - Concentrated Loads (lb)
Vert: 3=-5000
 - 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-33, 4-14=-87
 - Concentrated Loads (lb)
Vert: 3=-5000

Building 2

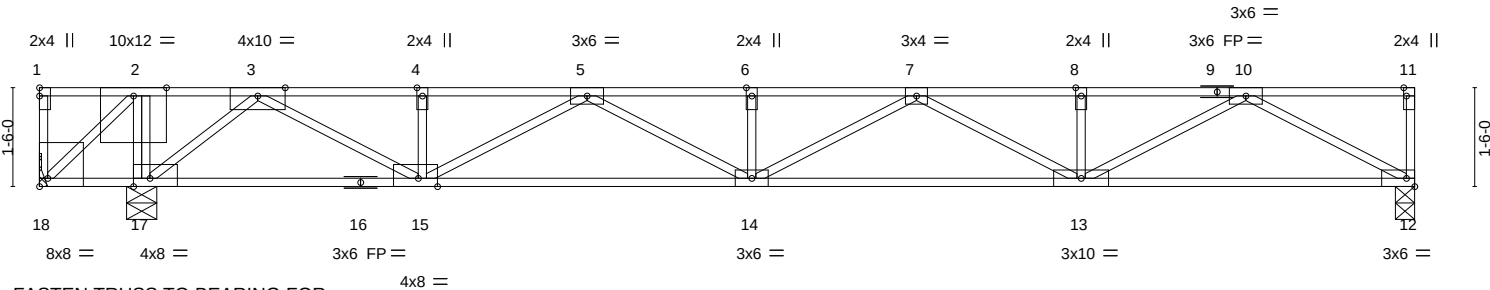
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F19	Floor	24	1	ISO440363

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:20 2022 Page 1
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Scale = 1:35.0



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

1-6-10	20-10-8
1-6-10	19-3-14
Plate Offsets (X,Y)--	[11:0-1-8,Edge], [15:0-3-8,Edge], [17:0-3-0,Edge], [18:Edge,0-1-8]
LOADING (psf)	SPACING- 1-4-0
TCLL 40.0	Plate Grip DOL 1.00
TCDL 25.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 10.0	Code IBC2018/TPI2014
	CSI.
	TC 0.74
	BC 0.74
	WB 0.86
	Matrix-S
	DEFL.
	in (loc) l/defl L/d
	Vert(LL) -0.12 13-14 >999 480
	Vert(CT) -0.24 13-14 >963 360
	Horz(CT) 0.03 12 n/a n/a
	PLATES GRIP
	MT20 197/144
	Weight: 84 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 12=0-3-8, 18=Mechanical, 17=0-5-8
Max Uplift 18=-2061(LC 4)
Max Grav 12=801(LC 4), 17=3296(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/2230, 3-4=-604/0, 4-5=-604/0, 5-6=-2233/0, 6-7=-2233/0, 7-8=-2052/0, 8-10=-2052/0
BOT CHORD 17-18=-2230/0, 15-17=-919/0, 14-15=0/1615, 13-14=0/2342, 12-13=0/1249
WEBS 2-17=-2218/0, 2-18=0/3034, 10-12=-1425/0, 10-13=0/916, 7-13=-331/0, 5-14=0/705, 5-15=-1154/0, 3-15=0/1738, 3-17=-1665/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=2061.
 - 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.



February 25,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

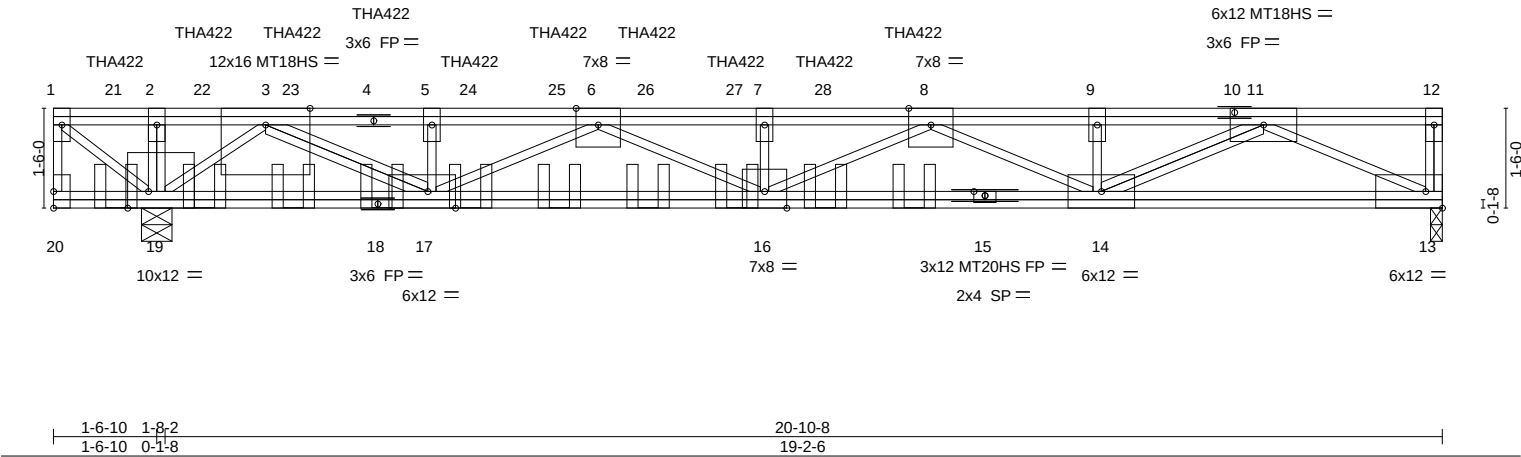


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F19G	Floor Girder	4	1	ISO440364
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:21 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-9Et97XUeaj40C7xVfqMa39dXPiB2FzrVylV9EuzhuFG



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	1.00	Vert(LL)	-0.29 16 >790 480	MT20	197/144	MT20	197/144
TCDL	25.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.56 16 >412 360	MT20HS	148/108	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.07 13 n/a n/a	MT18HS	197/144	MT18HS	197/144
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S				Weight: 139 lb		FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
BOT CHORD	2x4 SPF 2100F 1.8E(flat) *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2(flat)		

REACTIONS. (size) 13=0-2-2, 19=0-5-8
Max Grav 13=2188(LC 4), 19=3633(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-7489/0, 5-6=-7542/0, 6-7=-10700/0, 7-8=-10700/0, 8-9=-7165/0, 9-11=-7145/0
BOT CHORD 17-19=0/3659, 16-17=0/9977, 14-16=0/9676, 13-14=0/4297
WEBS 2-19=-732/0, 11-13=-4694/0, 11-14=0/3232, 9-14=-309/0, 8-14=-2790/0, 8-16=0/1190, 7-16=-788/0, 6-16=0/817, 6-17=-2712/0, 5-17=-818/0, 3-17=0/4363, 3-19=-4605/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x6 MT20 unless otherwise indicated.
 - 4) The Fabrication Tolerance at joint 15 = 11%
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
 - 6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.
 - 9) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-4-0 oc max. starting at 0-11-4 from the left end to 12-11-4 to connect truss(es) to front face of top chord.
 - 10) Fill all nail holes where hanger is in contact with lumber.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-20, 1-12=-130
Concentrated Loads (lb)
Vert: 8=-295(F) 4=-260(F) 21=-345(F) 22=-260(F) 23=-260(F) 24=-260(F) 25=-260(F) 26=-260(F) 27=-260(F) 28=-260(F)



February 25,2022

Building 2

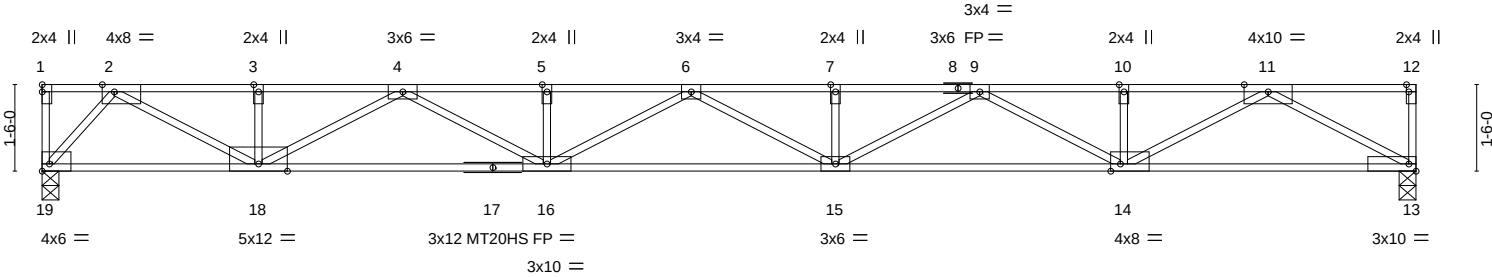
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F21	Floor	64	1	ISO440365
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:22 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-dQRXKtVGK1CtqHWWhDYtpcM9keiYv_6ueBPEjnKzhuFF



Scale = 1:39.9



23-9-12									
23-9-12									
Plate Offsets (X,Y)-- [2:0-2-8,Edge], [12:0-1-8,Edge], [14:0-2-0,Edge], [19:Edge,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	in (loc)	l/defl	L/d	GRIP
TCDL	25.0	Lumber DOL	1.00	BC	0.66	Vert(LL)	-0.37 15-16	>768	480
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Vert(CT)	-0.72 15-16	>397	360
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S		Horz(CT)	0.10 13	n/a	n/a
								Weight: 93 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF 2100F 1.8E(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2(flat)		
REACTIONS. (size) 13=0-3-8, 19=0-3-8			
Max Grav 13=1184(LC 1), 19=1184(LC 1)			
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	2-3=-2724/0, 3-4=-2724/0, 4-5=-4775/0, 5-6=-4775/0, 6-7=-5011/0, 7-9=-5011/0, 9-10=-3441/0, 10-11=-3441/0		
BOT CHORD	18-19=0/989, 16-18=0/3949, 15-16=0/5095, 14-15=0/4429, 13-14=0/1945		
WEBS	11-13=-2220/0, 11-14=0/1707, 9-14=-1128/0, 9-15=0/664, 6-16=-365/0, 4-16=0/942, 4-18=-1399/0, 2-18=0/1980, 2-19=-1512/0		

- NOTES-
- 1) All plates are MT20 plates unless otherwise indicated.
 - 2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

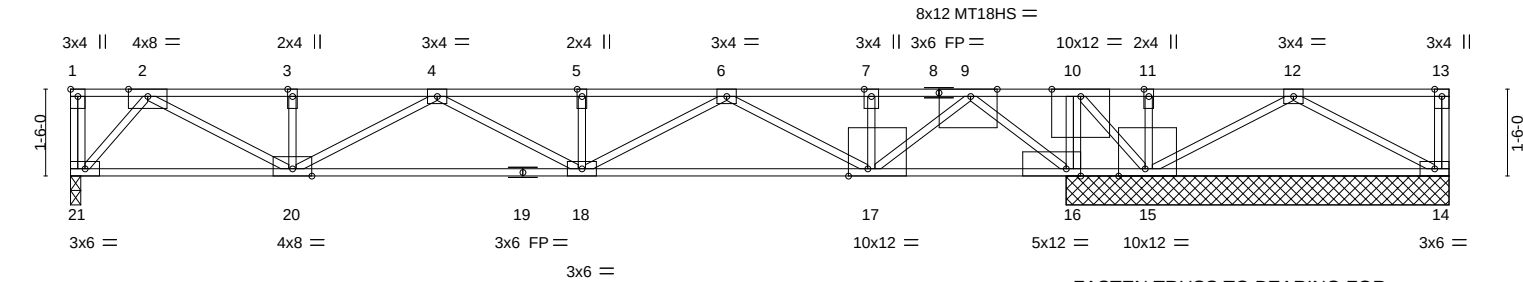


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F22	Floor	4	1	ISO440366
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:23 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcp1-5d?wYDWu5LKkSQ5unFO28aizG6s6jTPoP3_GJnzhuFE



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

Plate Offsets (X,Y)--		[1:Edge,0-1-8], [9:0-5-8,Edge], [15:0-5-8,Edge], [16:0-3-0,Edge], [17:0-4-0,Edge]	
LOADING (psf)		SPACING-	
TCLL 40.0		1-4-0	
TCDL 25.0		Plate Grip DOL 1.00	
BCLL 0.0		Lumber DOL 1.00	
BCDL 10.0		Rep Stress Incr NO	
		Code IBC2018/TPI2014	
		CSI.	
		TC 0.59	
		BC 0.79	
		WB 0.86	
		Matrix-S	
		DEFL.	
		in (loc) l/defl L/d	
		Vert(LL) -0.07 18 >999 480	
		Vert(CT) -0.23 17-18 >904 360	
		Horz(CT) 0.03 16 n/a n/a	
		PLATES GRIP	
		MT20 197/144	
		MT18HS 197/144	
		Weight: 99 lb FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD		TOP CHORD	
2x4 SPF No.2(flat) *Except*		Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
8-13: 2x4 SPF 2100F 1.8E(flat)		Rigid ceiling directly applied or 6-0-0 oc bracing.	
BOT CHORD		BOT CHORD	
2x4 SPF No.2(flat)			
WEBS			
2x4 SPF No.2(flat)			

REACTIONS. (size) 21=0-2-2, 16=6-7-6, 14=6-7-6, 15=6-7-6
Max Uplift 14=-212(LC 1), 15=-1329(LC 1)
Max Grav 21=819(LC 1), 16=4338(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1755/0, 3-4=-1755/0, 4-5=-2475/0, 5-6=-2475/0, 6-7=-1362/0, 7-9=-1362/0, 9-10=0/3659, 10-11=0/1673, 11-12=0/1673
BOT CHORD 20-21=0/683, 18-20=0/2312, 17-18=0/2125, 16-17=-1019/0, 15-16=-3659/0, 14-15=-606/0
WEBS 10-16=-2268/0, 2-21=-1034/0, 2-20=0/1223, 4-20=-636/0, 6-18=0/399, 6-17=-871/0, 7-17=-1438/0, 12-14=0/687, 12-15=-1218/0, 10-15=0/2889, 9-17=0/3053, 9-16=-3338/0

- NOTES-
- 1) All plates are MT20 plates unless otherwise indicated.
 - 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=212, 15=1329.
 - 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 5) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 6) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87
Concentrated Loads (lb)
Vert: 7=-1260
2) Dead: Lumber Increase=1.00, Plate Increase=1.00



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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F22	Floor	4	1	I50440366
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:23 2022 Page 2
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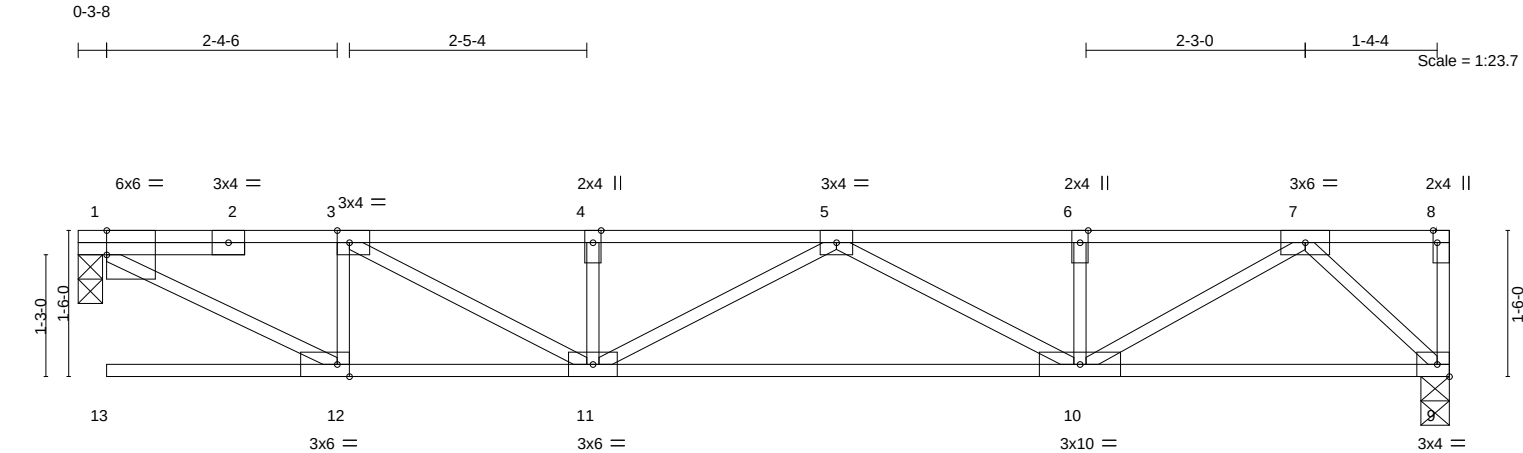
LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87
Concentrated Loads (lb)
Vert: 7=-1260

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F23	Floor	4	1	ISO440367
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:23 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-5d?wYDWu5LKkSQ5unFO28ai3p6vjbbP3_GJnzhuFE



0-3-8	14-0-14
0-3-8	13-9-6
Plate Offsets (X,Y)-- [3:0-1-8,Edge], [8:0-1-8,Edge], [12:0-1-8,Edge]	
LOADING (psf)	SPACING- 1-4-0
TCLL 40.0	Plate Grip DOL 1.00
TCDL 25.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 10.0	Code IBC2018/TPI2014
	CSI.
	TC 0.23
	BC 0.59
	WB 0.34
	Matrix-S
	DEFL.
	in (loc) l/defl L/d
	Vert(LL) -0.05 10-11 >999 480
	Vert(CT) -0.18 13 >935 360
	Horz(CT) 0.00 9 n/a n/a
	PLATES GRIP
	MT20 197/144
	Weight: 57 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 9=0-3-8, 1=0-3-0
Max Grav 9=686(LC 1), 1=686(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1057/0, 3-4=-1624/0, 4-5=-1624/0, 5-6=-1403/0, 6-7=-1403/0
BOT CHORD 11-12=0/1054, 10-11=0/1710, 9-10=0/647
WEBS 7-9=-902/0, 7-10=0/879, 5-10=-350/0, 3-11=0/647, 3-12=-508/0, 1-12=0/1198

- NOTES-**
- 1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 4) CAUTION, Do not erect truss backwards.



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440368
J220197-G02F	F24	FLOOR	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:24 2022 Page 1
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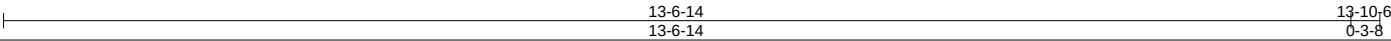
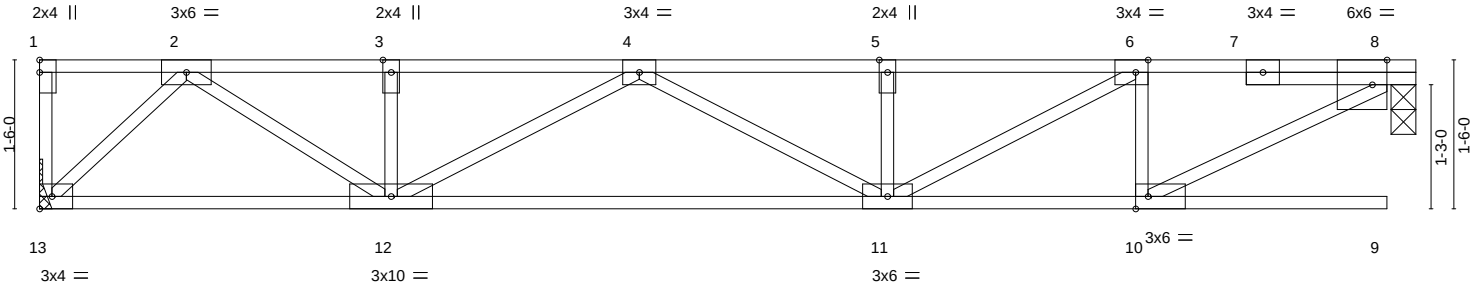


Plate Offsets (X,Y)--		[6:0-1-8,Edge], [8:0-1-12,Edge], [10:0-1-8,Edge]															
LOADING (psf)		SPACING-1-4-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL 1.00		TC 0.23		Vert(LL)		-0.05	11-12	>999		480		MT20		197/144	
TCDL	25.0	Lumber DOL 1.00		BC 0.58		Vert(CT)		-0.19	9	>869		360					
BCLL	0.0	Rep Stress Incr YES		WB 0.34		Horz(CT)		0.00	8	n/a		n/a					
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S										Weight: 56 lb		FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2(flat)		

REACTIONS. (size) 8=0-3-0, 13=Mechanical
Max Grav 8=676(LC 1), 13=676(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1314/0, 3-4=-1314/0, 4-5=-1590/0, 5-6=-1590/0, 6-8=-1052/0
BOT CHORD 12-13=0/634, 11-12=0/1651, 10-11=0/1049
WEBS 2-13=-883/0, 2-12=0/818, 4-12=-385/0, 6-11=0/615, 6-10=-496/0, 8-10=0/1188

- NOTES-
- 1) Refer to girder(s) for truss to truss connections.
 - 2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 5) CAUTION, Do not erect truss backwards.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Building 2

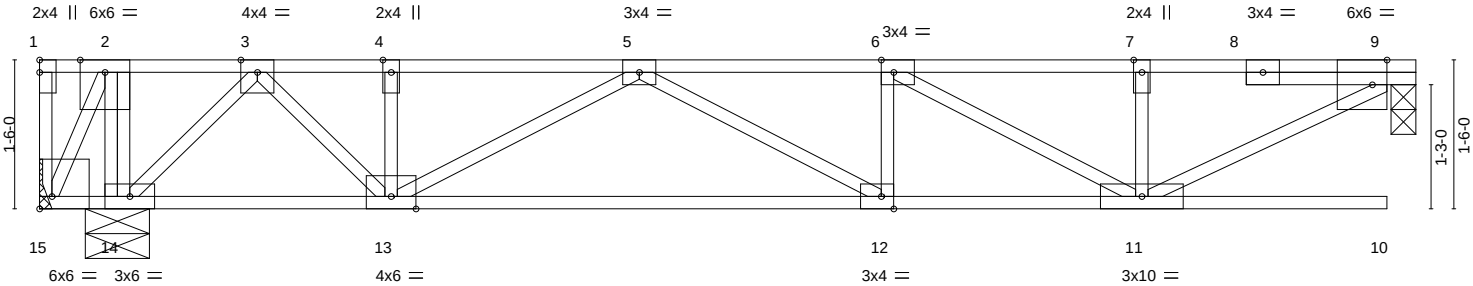
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F25	FLOOR	4	1	ISO440369

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:25 2022 Page 1
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Scale = 1:23.2



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

0-9-7		12-1-14							13-6-14		13-10-6	
0-9-7		11-4-7							1-5-0		0-3-8	
Plate Offsets (X,Y)-- [6:0-1-8,Edge], [9:0-1-12,Edge], [12:0-1-8,Edge], [15:Edge,0-1-8]												
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	40.0	Plate Grip DOL 1.00		TC	0.26	Vert(LL)	-0.03	12-13	>999	480	MT20	197/144
TCDL	25.0	Lumber DOL 1.00		BC	0.50	Vert(CT)	-0.19	10	>816	360		
BCLL	0.0	Rep Stress Incr YES		WB	0.39	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S						Weight: 60 lb FT = 20%F, 11%E		

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15.

REACTIONS.

(size) 9=0-3-0, 15=Mechanical, 14=0-7-12
Max Uplift 15=-1242(LC 4)
Max Grav 9=568(LC 1), 14=2004(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/638, 3-4=-530/0, 4-5=-530/0, 5-6=-1201/0, 6-7=-858/0, 7-9=-861/0
BOT CHORD 14-15=-638/0, 12-13=0/1067, 11-12=0/1201
WEBS 2-14=-1349/0, 2-15=0/1373, 9-11=0/972, 6-11=-389/0, 5-13=-613/0, 3-14=-896/0, 3-13=0/751

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=1242.
- 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 8) CAUTION, Do not erect truss backwards.



February 25,2022

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

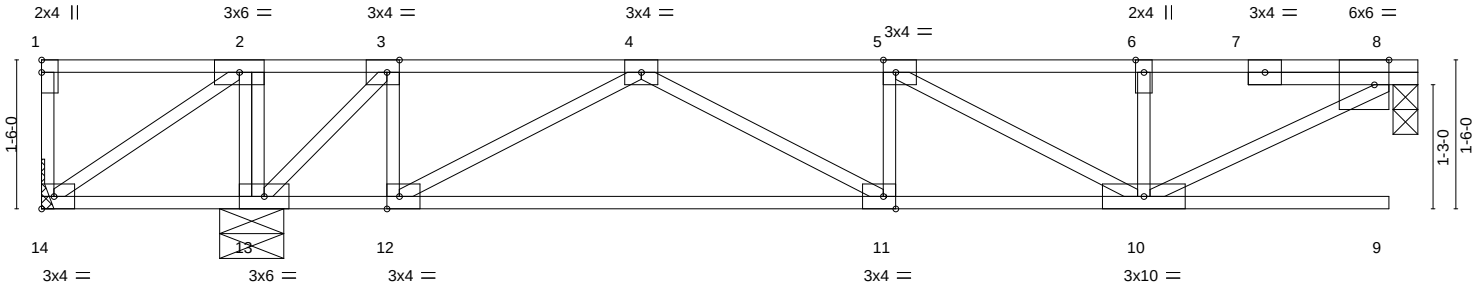
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F26	FLOOR	4	1	IS0440370
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:25 2022 Page 1
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Scale = 1:23.2



2-1-7	13-6-14	13-10-6
2-1-7	11-5-7	0-3-8

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [5:0-1-8,Edge], [8:0-1-12,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	in (loc)	l/defl	L/d	GRIP
TCDL	25.0	Lumber DOL	1.00	BC	0.43	Vert(LL)	-0.02	11	>999
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Vert(CT)	-0.19	9	>736
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S		Horz(CT)	-0.00	8	n/a
								Weight: 59 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.
WEBS	2x4 SPF No.2(flat)		
REACTIONS.			
(size) 8=0-3-0, 14=Mechanical, 13=0-7-12			
Max Uplift 14=-376(LC 4)			
Max Grav 8=497(LC 4), 13=1178(LC 1)			
FORCES.			
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	2-3=0/616, 4-5=-938/0, 5-6=-730/0, 6-8=-733/0		
BOT CHORD	13-14=-616/0, 11-12=0/675, 10-11=0/938		
WEBS	2-13=-577/0, 2-14=0/741, 8-10=0/827, 4-11=0/300, 4-12=-765/0, 3-12=0/428, 3-13=-868/0		

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=376.
 - 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 7) CAUTION, Do not erect truss backwards.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

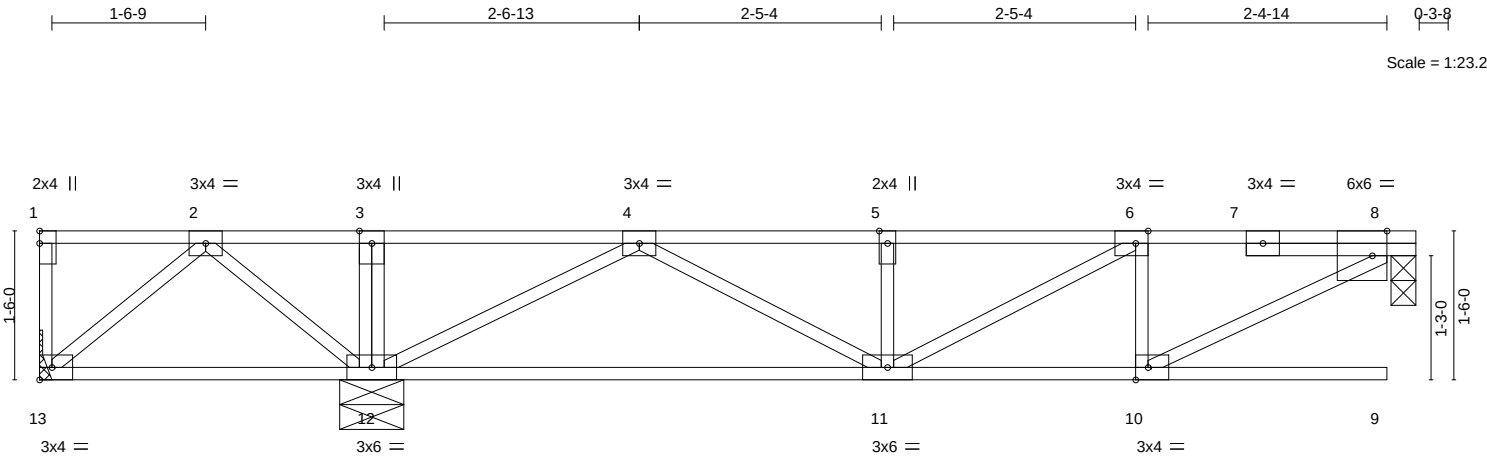


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440371
J220197-G02F	F27	FLOOR	4	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:26 2022 Page 1
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		3-4-3		13-6-14				13-10-6	
		3-4-3		10-2-11				0-3-8	
Plate Offsets (X,Y)-- [6:0-1-8,Edge], [8:0-1-12,Edge], [10:0-1-8,Edge]									
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	40.0	Plate Grip DOL 1.00		TC	0.34	Vert(LL)	-0.02 11 >999 480	MT20	197/144
TCDL	25.0	Lumber DOL 1.00		BC	0.35	Vert(CT)	-0.19 9 >658 360		
BCLL	0.0	Rep Stress Incr YES		WB	0.20	Horz(CT)	-0.00 8 n/a n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S				Weight: 57 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS	2x4 SPF No.2(flat)		
REACTIONS. (size) 13=Mechanical, 8=0-3-0, 12=0-7-12 Max Uplift 13=-144(LC 4) Max Grav 13=55(LC 3), 8=439(LC 4), 12=974(LC 1)			
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	2-3=0/484, 3-4=0/487, 4-5=-725/0, 5-6=-725/0, 6-8=-630/0		
BOT CHORD	11-12=0/360, 10-11=0/627		
WEBS	8-10=0/710, 6-10=-272/0, 4-11=0/421, 4-12=-945/0, 2-13=0/281, 2-12=-425/0		

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=144.
 - 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 7) CAUTION, Do not erect truss backwards.



February 25,2022

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

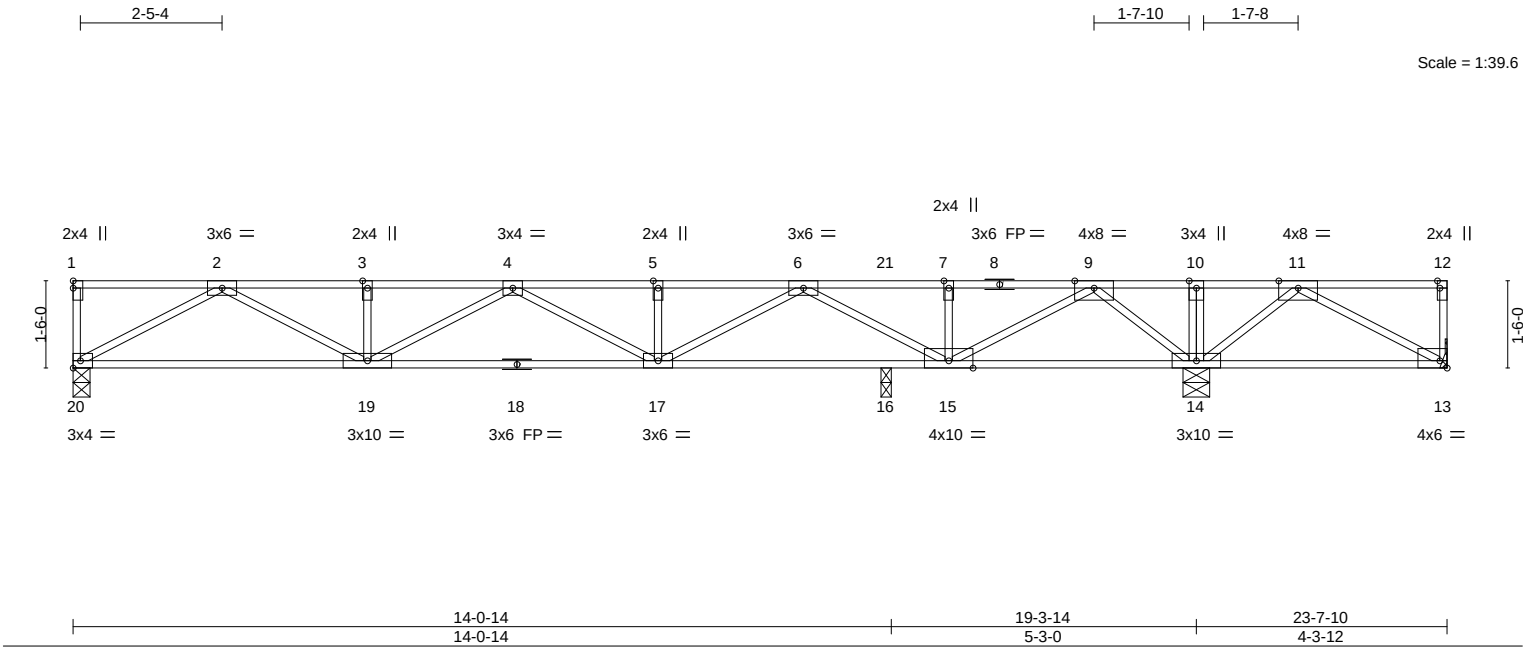
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F28	Floor	8	1	ISO440372
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:27 2022 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.13 17-19 >999 480	MT20		197/144	
TCDL	25.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.27 17-19 >626 360				
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04 16 n/a n/a				
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							
								Weight: 94 lb		FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SPF No.2(flat)		

REACTIONS. (size) 13=Mechanical, 20=0-3-8, 14=0-5-8, 16=0-2-2
Max Uplift 13=554(LC 3)
Max Grav 20=761(LC 3), 14=1831(LC 1), 16=209(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1913/0, 3-4=-1913/0, 4-5=-1917/0, 5-6=-1917/0, 6-7=-287/0, 7-9=-287/0,
9-10=0/1988, 10-11=0/1988
BOT CHORD 19-20=0/1180, 17-19=0/2114, 16-17=0/1292, 15-16=0/1292, 14-15=-936/0,
13-14=-1098/0
WEBS 2-20=-1346/0, 2-19=0/837, 4-17=-258/0, 6-17=0/758, 6-15=-1196/0, 9-15=0/1342,
9-14=-1361/0, 11-13=0/1253, 11-14=-1252/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=554.
 - 5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.



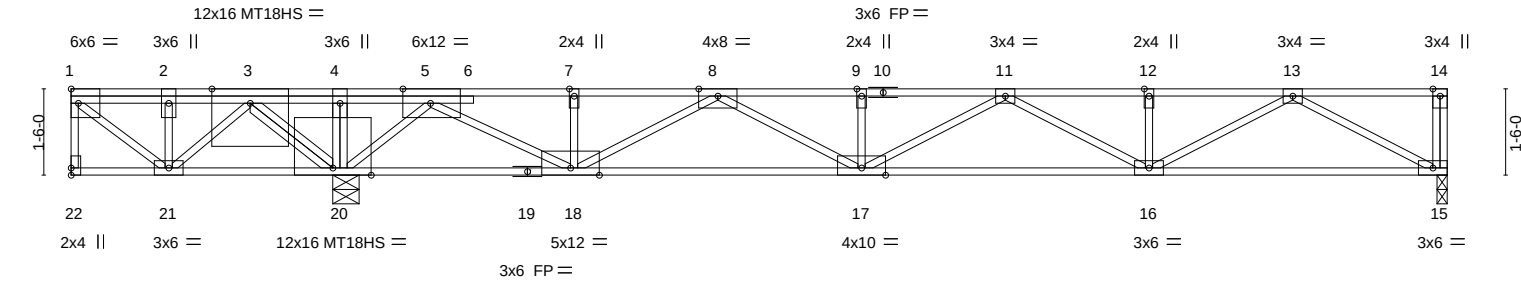
February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F28G	FLOOR SPECIAL	4	1	ISO440373
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:28 2022 Page 1
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1-7-10		4-6-10		4-8-2		23-11-4	
1-7-10		2-11-0		0-1-8		19-3-2	
Plate Offsets (X,Y)-- [5:0-5-12,Edge]							
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL. in (loc) l/defl L/d	
TCLL 40.0		Plate Grip DOL 1.00		TC 0.64		Vert(LL) -0.16 16-17 >999 480	
TCDL 25.0		Lumber DOL 1.00		BC 0.95		Vert(CT) 0.15 17 >999 360	
BCLL 0.0		Rep Stress Incr NO		WB 0.70		Horz(CT) -0.05 15 n/a n/a	
BCDL 10.0		Code IBC2018/TPI2014		Matrix-S			
						PLATES GRIP	
						MT20 197/144	
						MT18HS 197/144	
						Weight: 107 lb FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 2100F 1.8E(flat) *Except* 10-14: 2x4 SPF No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF 2100F 1.8E(flat)	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2(flat)		

REACTIONS. (size) 15=0-2-2, 20=0-5-8
Max Uplift 15=-4(LC 3)
Max Grav 15=536(LC 4), 20=6868(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=0/6455, 4-5=0/6455, 5-7=0/3841, 7-8=0/3841, 8-9=-293/1708, 9-11=-293/1708,
11-12=-1093/411, 12-13=-1093/411
BOT CHORD 20-21=-420/0, 18-20=-5379/0, 17-18=-2707/0, 16-17=-984/892, 15-16=-120/783
WEBS 13-15=-889/136, 13-16=-332/354, 11-16=0/654, 11-17=-826/0, 8-17=0/1330,
8-18=-1771/0, 5-18=0/2470, 5-20=-2095/0, 3-21=0/458, 3-20=-8001/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) The Fabrication Tolerance at joint 20 = 7%
 - 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15.
 - 6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 7) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 9) CAUTION, Do not erect truss backwards.
 - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5000 lb down at 3-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-14=-87
Concentrated Loads (lb)
Vert: 3=-5000(F)



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F28G	FLOOR SPECIAL	4	1	I50440373
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:28 2022 Page 2
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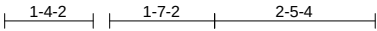
- LOAD CASE(S)** Standard
- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-14=-87
Concentrated Loads (lb)
Vert: 3=-5000(F)
- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-87, 4-14=-33
Concentrated Loads (lb)
Vert: 3=-5000(F)
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-33, 4-14=-87
Concentrated Loads (lb)
Vert: 3=-5000(F)
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-87, 4-14=-33
Concentrated Loads (lb)
Vert: 3=-5000(F)
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-4=-33, 4-14=-87
Concentrated Loads (lb)
Vert: 3=-5000(F)

Building 2

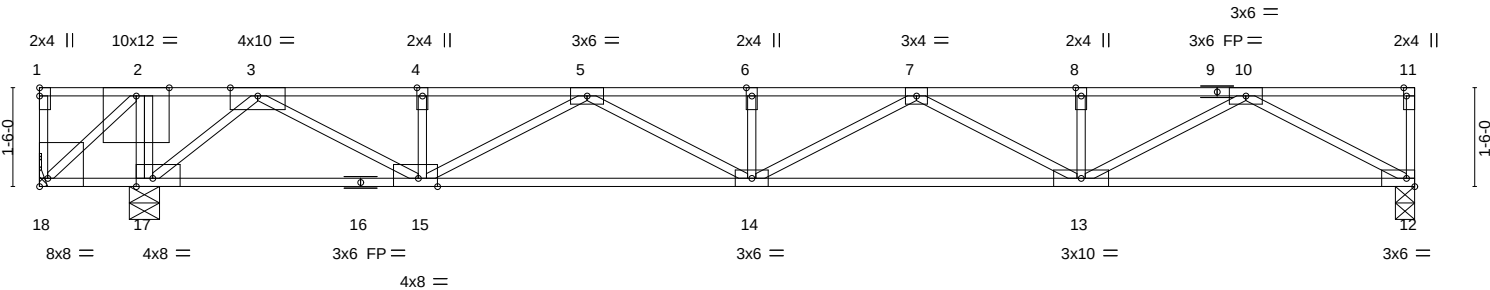
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F29	Floor	24	1	ISO440374

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:29 2022 Page 1
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Scale = 1:35.0



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

1-7-2 1-7-2		20-10-8 19-3-6	
Plate Offsets (X,Y)--		[11:0-1-8,Edge], [15:0-3-8,Edge], [17:0-3-0,Edge], [18:Edge,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 40.0	Plate Grip DOL 1.00	TC 0.73	in (loc) l/defl L/d
TCDL 25.0	Lumber DOL 1.00	BC 0.74	Vert(LL) -0.12 13-14 >999 480
BCLL 0.0	Rep Stress Incr YES	WB 0.84	Vert(CT) -0.24 13-14 >968 360
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Horz(CT) 0.03 12 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 84 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 12=0-3-8, 18=Mechanical, 17=0-5-8
Max Uplift 18=-1996(LC 4)
Max Grav 12=799(LC 4), 17=3231(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/2223, 3-4=-584/0, 4-5=-584/0, 5-6=-2220/0, 6-7=-2220/0, 7-8=-2045/0, 8-10=-2045/0
BOT CHORD 17-18=-2223/0, 15-17=-943/0, 14-15=0/1598, 13-14=0/2332, 12-13=0/1246
WEBS 2-17=-2155/0, 2-18=0/2987, 10-12=-1421/0, 10-13=0/912, 7-13=-327/0, 5-14=0/709, 5-15=-1158/0, 3-15=0/1742, 3-17=-1641/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=1996.
 - 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	F29G	Floor Girder	4	1	ISO440375
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:30 2022 Page 1
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0-1-8

H | 2-5-4 |

1-6-2 | 1-3-10 |
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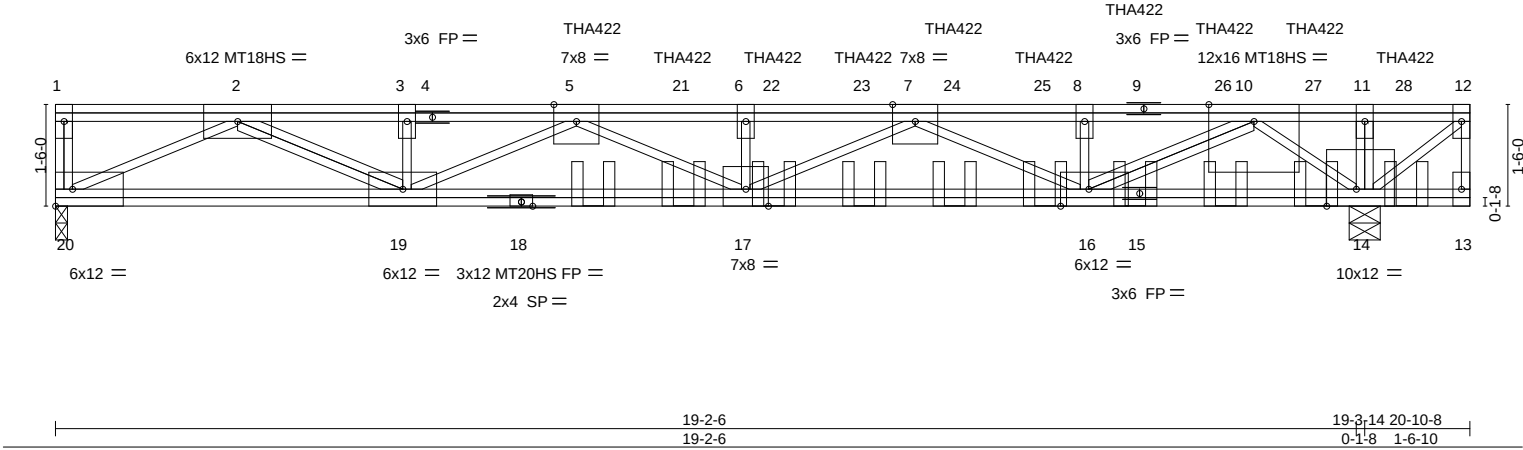


Plate Offsets (X,Y)-- [14:0-5-4,Edge], [16:0-5-0,Edge]		19-2-6 19-2-6		19-3-14 20-10-8 0-1-8 1-6-10	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 1.00	Vert(LL)	-0.29 17 >790 480
TCDL 25.0	Lumber DOL	1.00	BC 0.70	Vert(CT)	-0.56 17 >412 360
BCLL 0.0	Rep Stress Incr	NO	WB 0.93	Horz(CT)	0.07 14 n/a n/a
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S		
				PLATES	GRIP
				MT20	197/144
				MT20HS	148/108
				MT18HS	197/144
				Weight: 139 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF 2100F 1.8E(flat) *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
15-20: 2x4 DF 2400F 2.0E(flat), 13-15: 2x4 SPF No.2(flat)	
WEBS 2x4 SPF No.2(flat)	

REACTIONS. (size) 20=0-2-2, 14=0-5-8
Max Grav 20=2188(LC 3), 14=3633(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7145/0, 3-5=-7165/0, 5-6=-10700/0, 6-7=-10700/0, 7-8=-7542/0, 8-10=-7488/0
BOT CHORD 19-20=0/4297, 17-19=0/9676, 16-17=0/9977, 14-16=0/3659
WEBS 11-14=-731/0, 2-20=-4694/0, 2-19=0/3232, 3-19=-309/0, 5-19=-2789/0, 5-17=0/1189, 6-17=-788/0, 7-17=0/817, 7-16=-2712/0, 8-16=-818/0, 10-16=0/4363, 10-14=-4605/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x6 MT20 unless otherwise indicated.
 - 4) The Fabrication Tolerance at joint 18 = 11%
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
 - 6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.
 - 9) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-4-0 oc max. starting at 7-11-4 from the left end to 19-11-4 to connect truss(es) to back face of top chord.
 - 10) Fill all nail holes where hanger is in contact with lumber.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-20=-20, 1-12=-130
Concentrated Loads (lb)
Vert: 9=-260(B) 5=-295(B) 21=-260(B) 22=-260(B) 23=-260(B) 24=-260(B) 25=-260(B) 26=-260(B) 27=-260(B) 28=-345(B)



February 25, 2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	L11	Floor Supported Gable	4	1	ISO440376
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:31 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-s9UxDycvDoLcPfiQFxxwTG1SQKnCbIXzFlwhbJzhuF6

0-1-8

0-1-8

Scale = 1:40.1

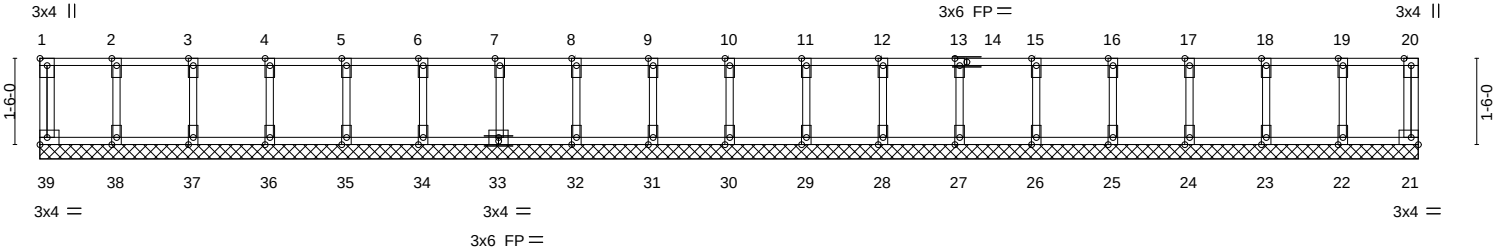


Plate Offsets (X,Y)-- [1:Edge,0-1-8]		23-11-12		23-11-12	
LOADING (psf)		SPACING-		CSI.	
TCLL	40.0	Plate Grip DOL	2-0-0	TC	0.06
TCDL	10.0	Lumber DOL	1.00	BC	0.01
BCLL	0.0	Rep Stress Incr	YES	WB	0.02
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R	
				DEFL.	
				in (loc)	L/d
				Vert(LL)	n/a
				Vert(CT)	n/a
				Horz(CT)	0.00
					21
					n/a
					n/a
				PLATES	
				GRIP	
				MT20	
				197/144	
				Weight: 85 lb	
				FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2(flat)		
OTHERS	2x4 SPF No.2(flat)		

REACTIONS. All bearings 23-11-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 39, 21, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

- NOTES-**
- 1) All plates are 2x4 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	L21	Floor Supported Gable	4	1	ISO440377
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:32 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-LL2JQldX_6TT1pHcoe290Tad9k6TKIm6UyfF7IzhuF5

0-1-8

0-1-8

Scale = 1:39.8

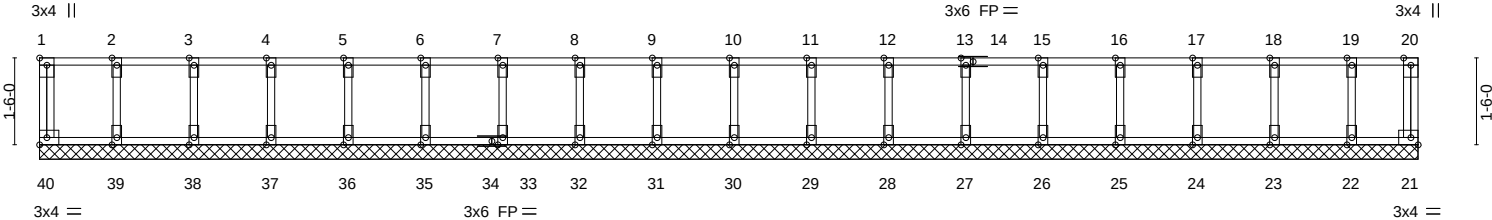


Plate Offsets (X,Y)-- [1:Edge,0-1-8]		23-9-12		23-9-12	
LOADING (psf)		SPACING-		CSI.	
TCLL 40.0		2-0-0		TC 0.07	
TCDL 10.0		Plate Grip DOL 1.00		BC 0.01	
BCLL 0.0		Lumber DOL 1.00		WB 0.02	
BCDL 5.0		Rep Stress Incr YES		Matrix-R	
		Code IBC2018/TPI2014			
				DEFL.	
				in (loc) l/defl L/d	
				Vert(LL) n/a - n/a 999	
				Vert(CT) n/a - n/a 999	
				Horz(CT) 0.00 21 n/a n/a	
				PLATES	
				MT20	
				GRIP	
				197/144	
				Weight: 84 lb	
				FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD 2x4 SPF No.2(flat)		TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD 2x4 SPF No.2(flat)		BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS 2x4 SPF No.2(flat)			
OTHERS 2x4 SPF No.2(flat)			

REACTIONS. All bearings 23-9-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

- NOTES-**
- 1) All plates are 2x4 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



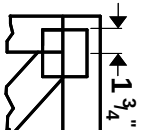
February 25,2022

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

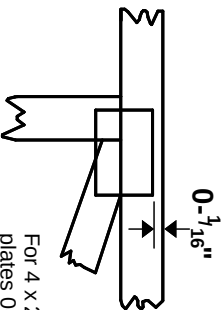


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless X, Y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

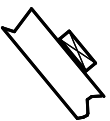
*** Plate location details available in MITek 20120 software or upon request.**

PLATE SIZE

4 X 4

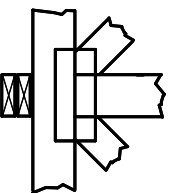
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



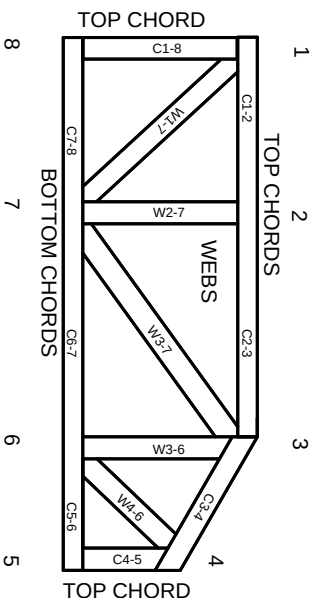
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



RE: J220197-G02R - Brinkmann Constructors

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

Site Information:

Project Customer: Valued customer Project Name: BRINKMANN CONSTRUCTORS
Lot/Block: Subdivision:
Model:

Address: 2100 NW Lowenstein Dr
City: Lee Summit State: Mo

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IBC2018/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16
Roof Load: 40.6 psf Floor Load: N/A psf
Mean Roof Height (feet): 25 Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I50440380	A01	2/25/22	35	I50440414	B10	2/25/22
2	I50440381	A02	2/25/22	36	I50440415	B11	2/25/22
3	I50440382	A03	2/25/22	37	I50440416	B12	2/25/22
4	I50440383	A04	2/25/22	38	I50440417	B13	2/25/22
5	I50440384	A05	2/25/22	39	I50440418	B14	2/25/22
6	I50440385	A06	2/25/22	40	I50440419	B15	2/25/22
7	I50440386	A07	2/25/22	41	I50440420	B16	2/25/22
8	I50440387	A08	2/25/22	42	I50440421	B17	2/25/22
9	I50440388	A09	2/25/22	43	I50440422	B18	2/25/22
10	I50440389	A10	2/25/22	44	I50440423	B19	2/25/22
11	I50440390	A11	2/25/22	45	I50440424	B20	2/25/22
12	I50440391	A12	2/25/22	46	I50440425	B21	2/25/22
13	I50440392	A13	2/25/22	47	I50440426	B22	2/25/22
14	I50440393	A14	2/25/22	48	I50440427	B23	2/25/22
15	I50440394	A15	2/25/22	49	I50440428	B24	2/25/22
16	I50440395	A16	2/25/22	50	I50440429	B25	2/25/22
17	I50440396	A17	2/25/22	51	I50440430	B26	2/25/22
18	I50440397	A18	2/25/22	52	I50440431	B27	2/25/22
19	I50440398	A19	2/25/22	53	I50440432	B28	2/25/22
20	I50440399	A20	2/25/22	54	I50440433	B29	2/25/22
21	I50440400	A21	2/25/22	55	I50440434	B30	2/25/22
22	I50440401	A22	2/25/22	56	I50440435	B31	2/25/22
23	I50440402	A23	2/25/22	57	I50440436	B32	2/25/22
24	I50440403	A24	2/25/22	58	I50440437	B33	2/25/22
25	I50440404	A25	2/25/22	59	I50440438	B34	2/25/22
26	I50440405	B01	2/25/22	60	I50440439	B35	2/25/22
27	I50440406	B02	2/25/22	61	I50440440	B36	2/25/22
28	I50440407	B03	2/25/22	62	I50440441	B37	2/25/22
29	I50440408	B04	2/25/22	63	I50440442	B38	2/25/22
30	I50440409	B05	2/25/22	64	I50440443	J01	2/25/22
31	I50440410	B06	2/25/22	65	I50440444	T01	2/25/22
32	I50440411	B07	2/25/22	66	I50440445	T02	2/25/22
33	I50440412	B08	2/25/22	67	I50440446	T03	2/25/22
34	I50440413	B09	2/25/22	68	I50440447	T04	2/25/22

SHOP DRAWING REVIEW
REVIEW IS FOR GENERAL COMPLIANCE
WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR
CORRECTNESS OF DIMENSIONS OR DETAILS
☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED, REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 03/08/2022 BY: MJF

REVIEWED ☐ DATE RECIEVED:
REVIEWED AS NOTED ☒ DATE REVIEWED: 3/14/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva
SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE
WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE
CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND
CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES,
ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF
EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES,
ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL
CONDITIONS OF THE CONTRACT FOR CONSTRUCTION,
APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY
CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN
AN APPROVED CHANGE ORDER.

TR ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Mill Creek Truss, LLC.

Truss Design Engineer's Name: Sevier, Scott
My license renewal date for the state of Missouri is December 31, 2023.

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



February 25, 2022



RE: J220197-G02R - Brinkmann Constructors

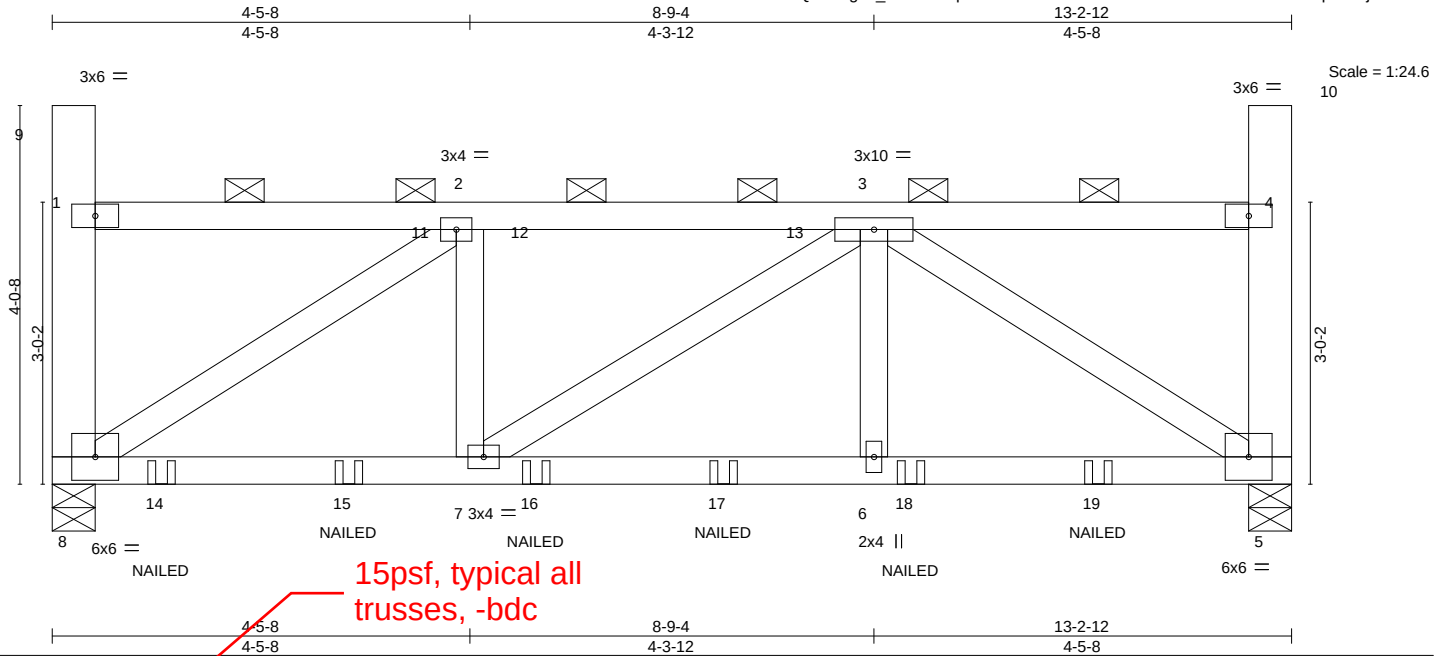
MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

No.	Seal#	Truss Name	Date
69	I50440448	T05	2/25/22
70	I50440449	T10	2/25/22
71	I50440450	T47	2/25/22
72	I50440451	T48	2/25/22
73	I50440452	TGE01	2/25/22
74	I50440453	TGE02	2/25/22
75	I50440454	TGE03	2/25/22
76	I50440455	TGE04	2/25/22
77	I50440456	TGE05	2/25/22
78	I50440457	TGE06	2/25/22
79	I50440458	TGE07	2/25/22
80	I50440459	TGE08	2/25/22
81	I50440460	TGE09	2/25/22
82	I50440461	TGE10	2/25/22
83	I50440462	TGE11	2/25/22
84	I50440463	TGE12	2/25/22
85	I50440464	TGE13	2/25/22
86	I50440465	TGE14	2/25/22
87	I50440466	TGE15	2/25/22
88	I50440467	TGE16	2/25/22
89	I50440468	TGE17	2/25/22
90	I50440469	TGE18	2/25/22
91	I50440470	TGE19	2/25/22
92	I50440471	TGE20	2/25/22
93	I50440472	TGE21	2/25/22
94	I50440473	TGE22	2/25/22
95	I50440474	TGE23	2/25/22

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440380
J220197-G02F	A01	FLAT GIRDER	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056.

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:28:54 2022 Page 1
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[illegible]

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-9, 1-4, 4-10, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 7-3-1 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	8-9,5-10: 2x6 SPF 1650F 1.5E		

REACTIONS. (lb/size) 8=820/0-5-8, 5=781/0-5-8
 Max Horz 8=-180(LC 10)
 Max Uplift 8=-443(LC 10), 5=-334(LC 11)
 Max Grav 8=835(LC 29), 5=798(LC 29)

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

TOP CHORD	2-12=-922/517, 12-13=-922/517, 3-13=-922/517
BOT CHORD	8-14=-663/922, 14-15=-663/922, 7-15=-663/922, 7-16=-579/919, 16-17=-579/919, 6-17=-579/919, 6-18=-579/919, 18-19=-579/919, 5-19=-579/919
WEBS	2-8=-1042/627, 2-7=-243/291, 3-6=-175/290, 3-5=-1042/646

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 443 lb uplift at joint 8 and 334 lb uplift at joint 5.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



February 25, 2022

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440380
J220197-G02F	A01	FLAT GIRDER	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:28:54 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-t34KKGccIBhCN5dWtixA90VTrOKG7WHfW88pdszhjUd

LOAD CASE(S) Standard Except:

- Uniform Loads (plf)
Vert: 3-11=-58, 5-8=-20
- Concentrated Loads (lb)
Vert: 14=-92(F) 15=-92(F) 16=-92(F) 17=-92(F) 18=-92(F) 19=-92(F)
- Trapezoidal Loads (plf)
Vert: 1=-73-to-11=-58, 3=-57-to-4=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 5-8=-20
- Concentrated Loads (lb)
Vert: 14=-78(F) 15=-78(F) 16=-78(F) 17=-78(F) 18=-78(F) 19=-81(F)
- Trapezoidal Loads (plf)
Vert: 1=-60-to-12=-53, 12=-53-to-13=-52, 13=-52-to-4=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=18, 1-9=37, 4-5=5, 4-10=25
- Concentrated Loads (lb)
Vert: 14=73(F) 15=74(F) 16=74(F) 17=74(F) 18=74(F) 19=-130(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-12=-40, 12=-40-to-13=-40, 13=-40-to-4=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=-5, 1-9=-25, 4-5=-18, 4-10=-37
- Concentrated Loads (lb)
Vert: 14=73(F) 15=74(F) 16=74(F) 17=74(F) 18=74(F) 19=-86(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-12=-40, 12=-40-to-13=-40, 13=-40-to-4=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=14, 1-9=-25, 4-5=3, 4-10=25
- Concentrated Loads (lb)
Vert: 14=73(F) 15=74(F) 16=74(F) 17=74(F) 18=74(F) 19=-115(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-12=-40, 12=-40-to-13=-40, 13=-40-to-4=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 5-8=-20
Horz: 1-8=-3, 1-9=-25, 4-5=-14, 4-10=25
- Concentrated Loads (lb)
Vert: 14=73(F) 15=74(F) 16=74(F) 17=74(F) 18=74(F) 19=-115(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-12=-40, 12=-40-to-13=-40, 13=-40-to-4=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 3-11=-60, 5-8=-20
- Concentrated Loads (lb)
Vert: 14=-92(F) 15=-92(F) 16=-92(F) 17=-92(F) 18=-92(F) 19=-94(F)
- Trapezoidal Loads (plf)
Vert: 1=-75-to-11=-60, 3=-59-to-4=-75



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0440381
J220197-G02R	A02	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:56 2022 Page 1
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13-2-12

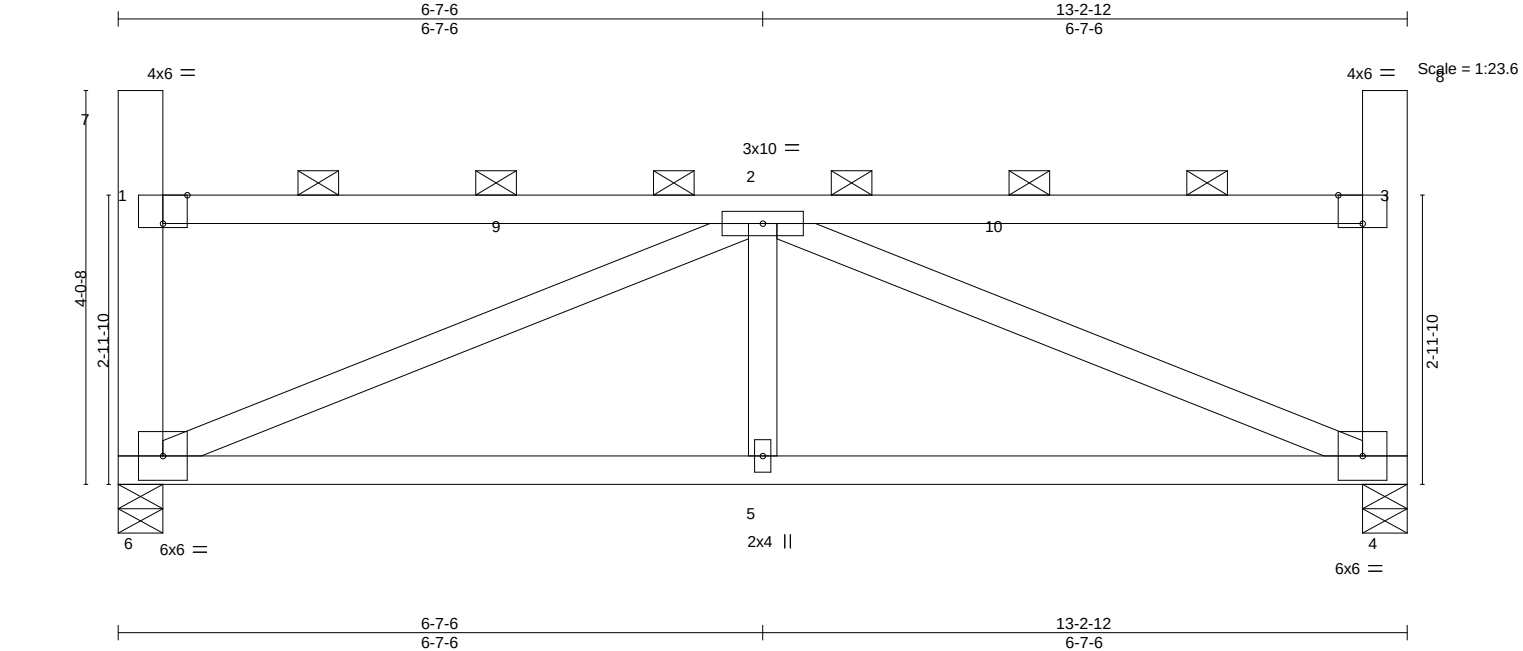


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [3:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.04	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.08		
TCDL	10.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.02		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS				Weight: 60 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-11-5 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	6-7,4-8: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=182(LC 11)
Max Uplift 6=-63(LC 10), 4=-63(LC 11)
Max Grav 6=539(LC 29), 4=540(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=-707/743, 4-5=-707/743
WEBS 2-6=-743/722, 2-5=0/284, 2-4=-743/719

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-58, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-58, 10=-58-to-3=-73



February 25,2022

Continued on page 2

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

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A02	Flat	3	1	ISO440381
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:56 2022 Page 2
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LOAD CASE(S) Standard

- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-48, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-9=-48, 10=-48-to-3=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-60, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440382
J220197-G02R	A03	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:57 2022 Page 1
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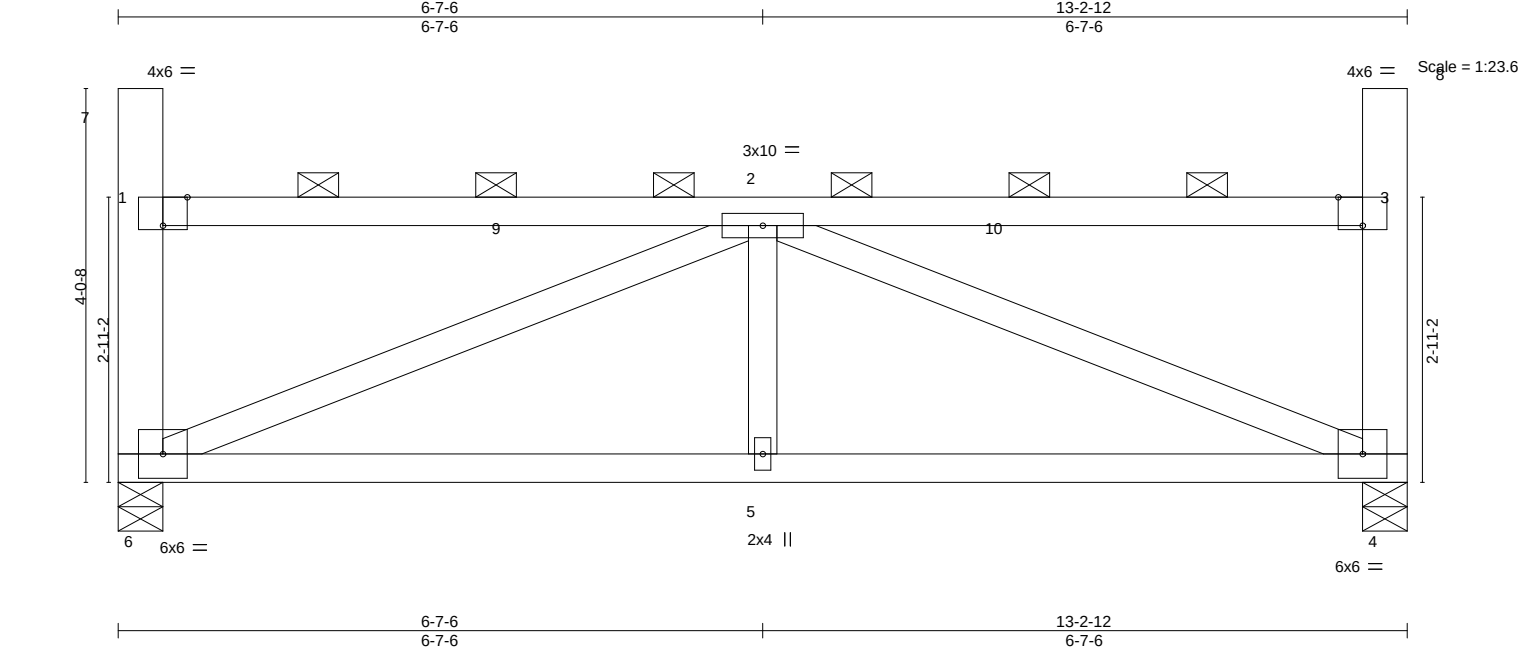


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [3:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.04	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.08		
TCDL	10.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.02		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS					
BCDL	10.0							Weight: 60 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-10-11 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	6-7,4-8: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=185(LC 13)
Max Uplift 6=-63(LC 10), 4=-63(LC 11)
Max Grav 6=539(LC 29), 4=540(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=-717/754, 4-5=-717/754
WEBS 2-6=-752/734, 2-5=0/284, 2-4=-752/730

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-58, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-58, 10=-58-to-3=-73



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A03	Flat	3	1	ISO440382
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:57 2022 Page 2
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LOAD CASE(S) Standard

- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-48, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-9=-48, 10=-48-to-3=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-60, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440383
J220197-G02R	A04	Flat Structural Gable	1	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:58 2022 Page 1
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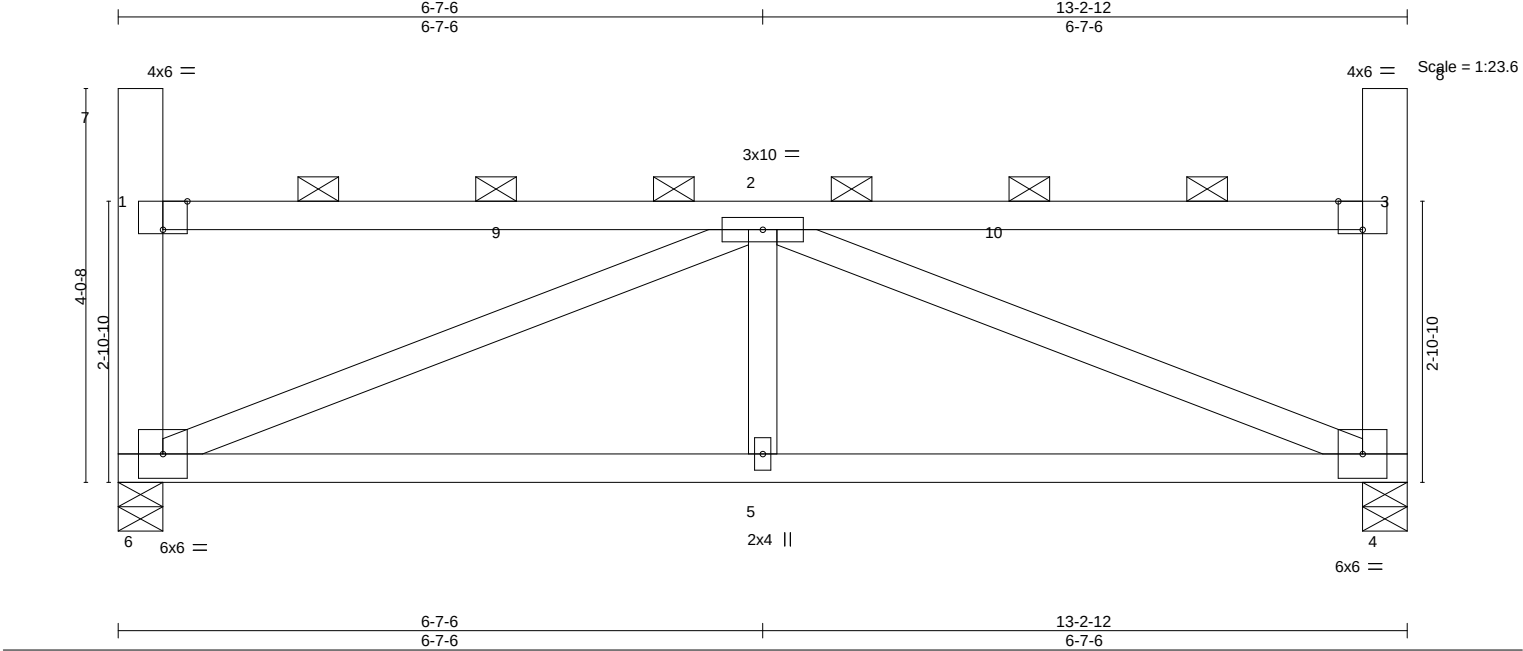


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [3:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	in (loc)	l/defl	L/d	GRIP
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(LL)	-0.04	5-6	>999
TCDL	10.0	Rep Stress Incr	NO	WB	0.61	Vert(CT)	-0.08	5-6	>999
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Horz(CT)	0.02	4	n/a
BCDL	10.0								
								Weight: 60 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-10-1 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	6-7,4-8: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-187(LC 10)
Max Uplift 6=-64(LC 10), 4=-64(LC 11)
Max Grav 6=539(LC 29), 4=540(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=-727/766, 4-5=-727/766
WEBS 2-6=-762/746, 2-5=0/284, 2-4=-762/742

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A04	Flat Structural Gable	1	1	ISO440383
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:14:58 2022 Page 2
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- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 9-10=-58, 4-6=-20
- Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-58, 10=-58-to-3=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 9-10=-48, 4-6=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-9=-48, 10=-48-to-3=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 9-10=-60, 4-6=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

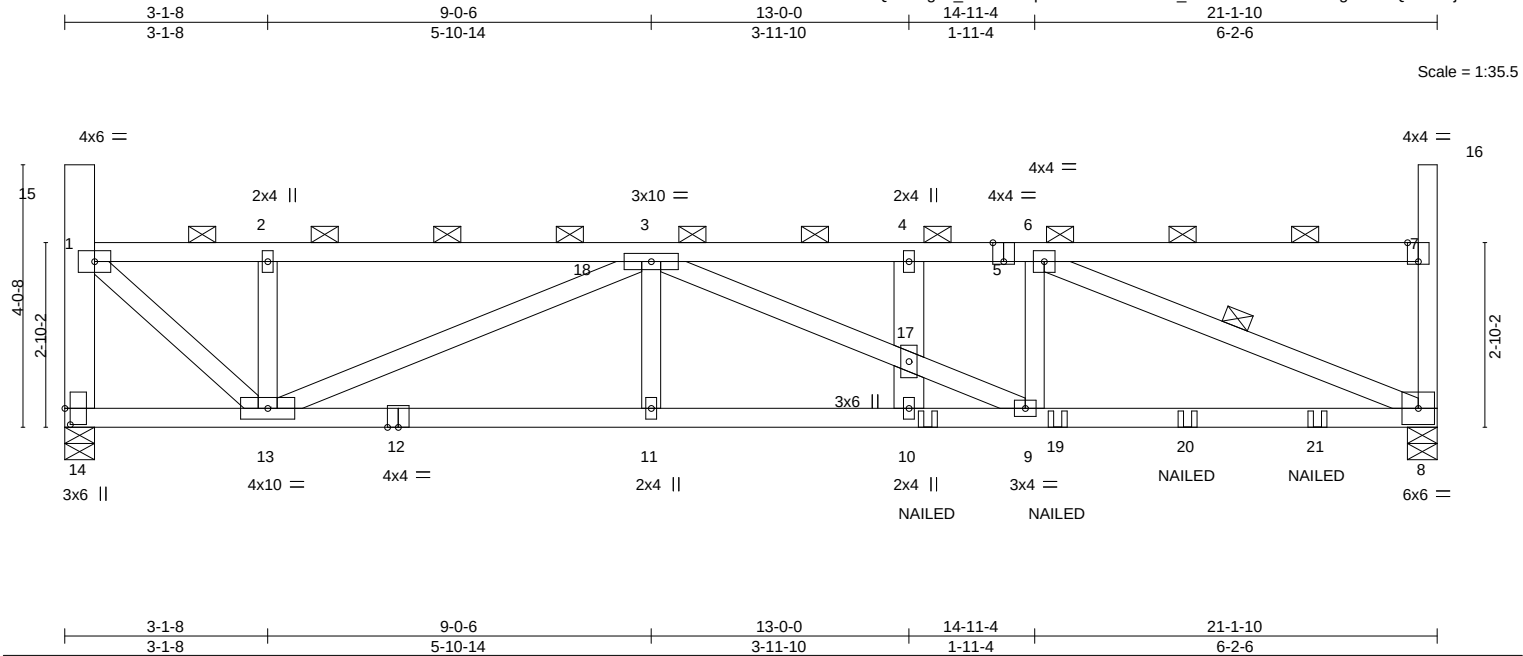
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0440384
J220197-G02F	A05	FLAT GIRDER	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.51	Vert(LL)	0.17 8-9 >999	MT20	197/144		
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.19 10-11 >999				
TCDL	10.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.06 8 n/a				
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-11-6 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 5-5-2 oc bracing.
WEBS	2x4 SPF No.2 *Except*	WEBS	1 Row at midpt 6-8
	14-15,4-17,10-17: 2x6 SPF 1650F 1.5E		

REACTIONS. (lb/size) 14=917/0-5-8, 8=1038/0-5-8
Max Horz 14=-189(LC 12)
Max Uplift 14=-217(LC 10), 8=-474(LC 11)
Max Grav 14=941(LC 29), 8=1063(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-921/521, 1-2=-989/601, 2-18=-989/601, 3-18=-989/601, 3-4=-1832/950, 4-5=-1832/950, 5-6=-1832/950
BOT CHORD 13-14=-315/337, 12-13=-1173/1966, 11-12=-1173/1966, 10-11=-1173/1966, 9-10=-1173/1966, 9-19=-952/1832, 19-20=-952/1832, 20-21=-952/1832, 8-21=-952/1832
WEBS 1-13=-725/1305, 2-13=-344/299, 3-13=-1064/634, 3-17=-418/238, 9-17=-415/246, 6-9=-282/377, 6-8=-1903/994

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 14 and 474 lb uplift at joint 8.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



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Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	A05	FLAT GIRDER	3	1	I50440384

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:32:34 2022 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-58, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-56(F) 19=-56(F) 20=-56(F) 21=-56(F)
Trapezoidal Loads (plf)
Vert: 1=-73-to-18=-58, 4=-57-to-7=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-48, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-47(F) 19=-47(F) 20=-47(F) 21=-49(F)
Trapezoidal Loads (plf)
Vert: 1=-60-to-18=-48, 4=-48-to-7=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Concentrated Loads (lb)
Vert: 10=124(F) 19=124(F) 20=124(F) 21=-79(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Concentrated Loads (lb)
Vert: 10=124(F) 19=124(F) 20=124(F) 21=-52(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Concentrated Loads (lb)
Vert: 10=124(F) 19=124(F) 20=124(F) 21=-70(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Concentrated Loads (lb)
Vert: 10=124(F) 19=124(F) 20=124(F) 21=-70(F)
Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-56(F) 19=-56(F) 20=-56(F) 21=-58(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

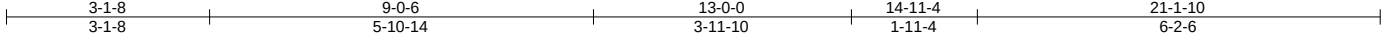
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A06	Flat	3	1	ISO440385

Mill Creek Truss, LLC, Halstead, KS - 67056,

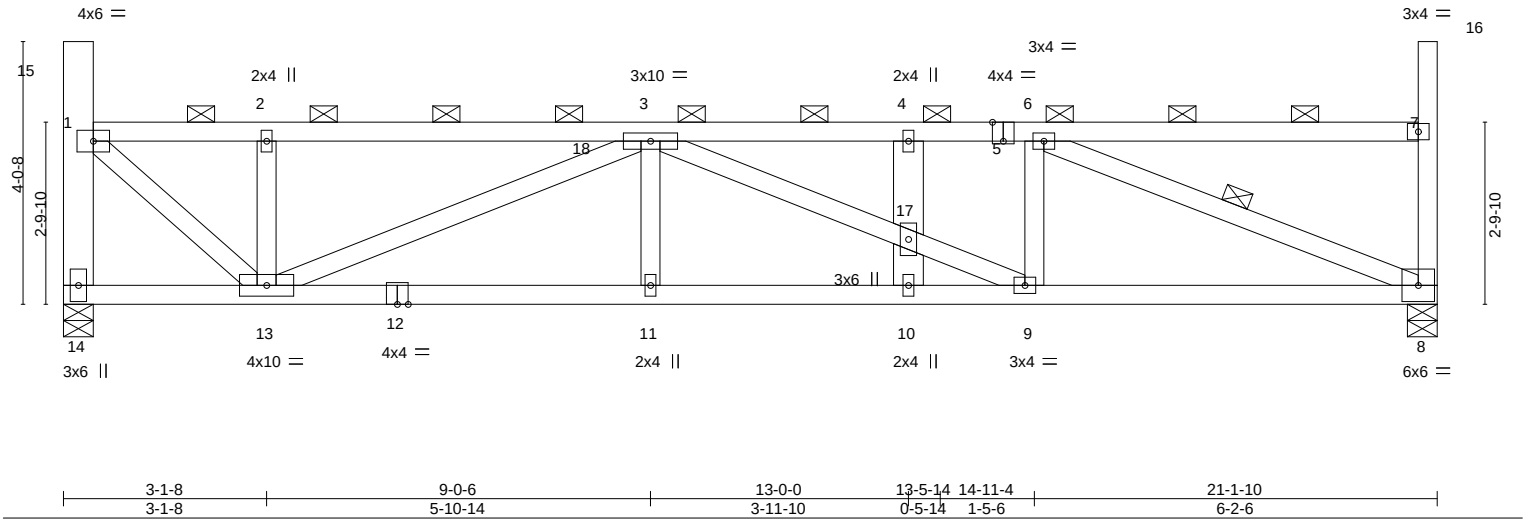
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:01 2022 Page 1

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Job Reference (optional)



Scale = 1:35.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.11 10-11 >999 240	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.17 10-11 >999 180				
TCDL	10.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.05 8 n/a n/a				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							
BCDL	10.0										
								Weight: 94 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (4-3-2 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 5-4-6 oc bracing.
WEBS	2x4 SPF No.2 *Except*	WEBS	1 Row at midpt 6-8
	14-15,10-17,4-17: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=-191(LC 10)
Max Uplift 14=-68(LC 10), 8=-68(LC 11)
Max Grav 14=889(LC 29), 8=889(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-870/519, 1-2=-946/608, 2-3=-946/608, 3-4=-1572/909, 4-6=-1572/909
BOT CHORD 13-14=-321/344, 11-13=-1183/1816, 10-11=-1183/1816, 9-10=-1183/1816, 8-9=-945/1572
WEBS 1-13=-728/1240, 2-13=-344/298, 3-13=-945/638, 3-17=-267/255, 9-17=-279/264, 6-9=-47/332, 6-8=-1634/992

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-58, 8-14=-20



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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A06	Flat	3	1	IS0440385
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-18=-58, 4=-57-to-7=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-18=-48, 8-14=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-18=-48, 4=-48-to-7=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

Building 2

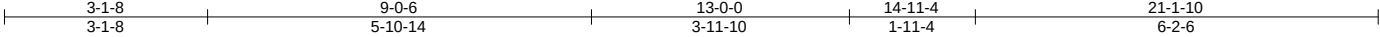
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A07	Flat	3	1	ISO440386

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:7aJbUL?xQxy50gva_Jb6JFzkcpl-S7sfjZ_MwKFCdQZNZybCEoebqEiL9_XNdwqA0zhuEd

Job Reference (optional)



Scale = 1:35.4

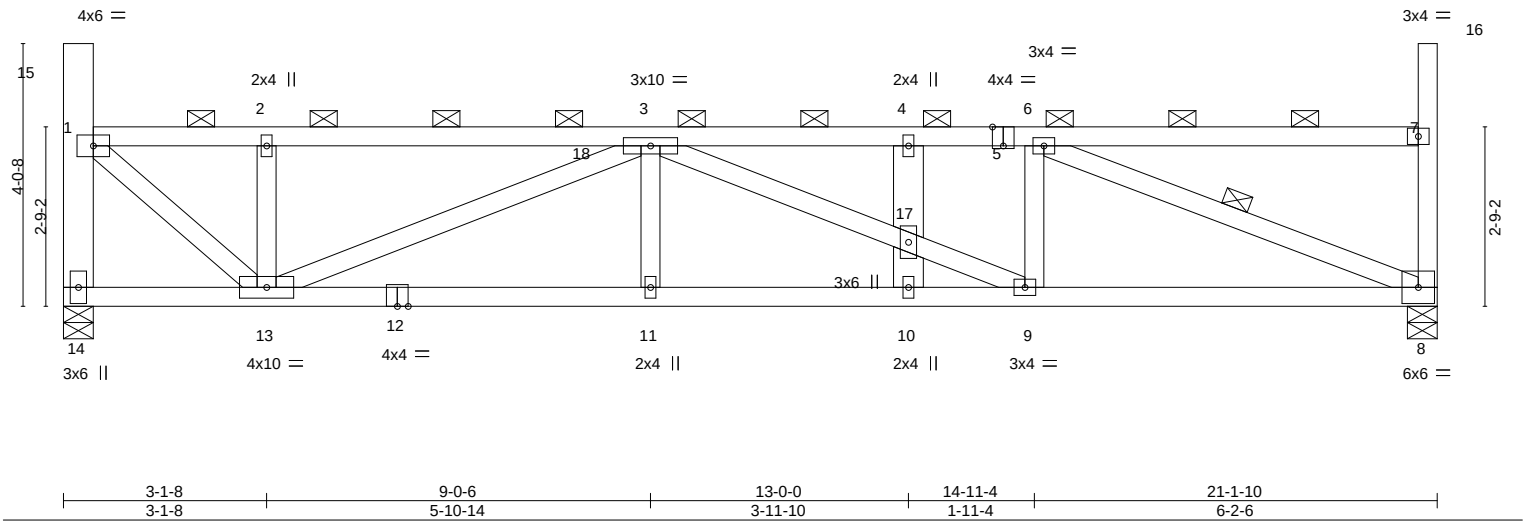


Plate Offsets (X,Y)-- [5:0-2-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.57	Vert(LL)	>999		197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.67	Vert(CT)	>999		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Horz(CT)	0.05 8 n/a n/a		
BCDL	10.0							Weight: 94 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (4-2-12 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 5-3-14 oc bracing.
WEBS	2x4 SPF No.2 *Except*	WEBS	1 Row at midpt 6-8
	14-15,4-17,10-17: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=193(LC 11)
Max Uplift 14=-68(LC 10), 8=-68(LC 11)
Max Grav 14=889(LC 29), 8=889(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-870/520, 1-2=-962/619, 2-3=-962/619, 3-4=-1598/923, 4-6=-1598/923
BOT CHORD 13-14=-327/350, 11-13=-1202/1846, 10-11=-1202/1846, 9-10=-1202/1846, 8-9=-959/1598
WEBS 1-13=-735/1252, 2-13=-344/299, 3-13=-958/648, 3-17=-271/260, 9-17=-284/269, 6-9=-48/332, 6-8=-1656/1006

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-18=-58, 8-14=-20



February 25,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A07	Flat	3	1	IS0440386
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:02 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-18=-58, 4=-57-to-7=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-18=-48, 8-14=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-18=-48, 4=-48-to-7=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-18=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-18=-60, 8-14=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

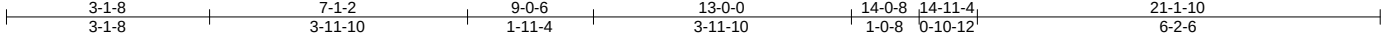
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440387
J220197-G02R	A08	Flat	3	1	Job Reference (optional)	

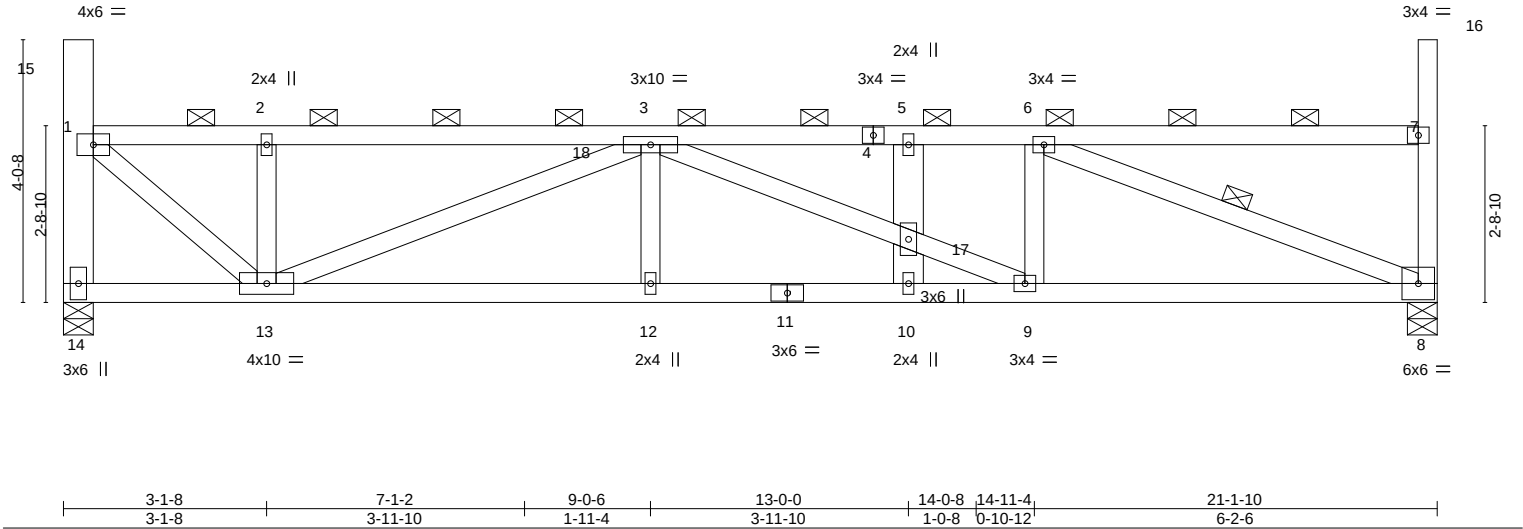
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:03 2022 Page 1

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Scale = 1:35.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.58	Vert(LL) 0.11 10-12 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.68	Vert(CT) -0.18 10-12 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.05 8 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 94 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (4-1-15 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 5-3-6 oc bracing.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt 6-8
14-15,5-17,10-17: 2x6 SPF 1650F 1.5E	

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=-195(LC 10)
Max Uplift 14=-69(LC 10), 8=-69(LC 11)
Max Grav 14=889(LC 29), 8=889(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-870/520, 1-2=-978/630, 2-3=-978/630, 3-5=-1625/939, 5-6=-1625/939
BOT CHORD 13-14=-334/357, 12-13=-1221/1877, 10-12=-1221/1877, 9-10=-1221/1877, 8-9=-973/1625
WEBS 1-13=-743/1264, 2-13=-344/299, 3-13=-972/659, 3-17=-275/266, 9-17=-288/274, 6-9=-49/332, 6-8=-1679/1021

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-18=-58, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-18=-58, 5=-57-to-7=-73



February 25,2022

Continued on page 2

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

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A08	Flat	3	1	IS0440387
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:03 2022 Page 2
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LOAD CASE(S) Standard

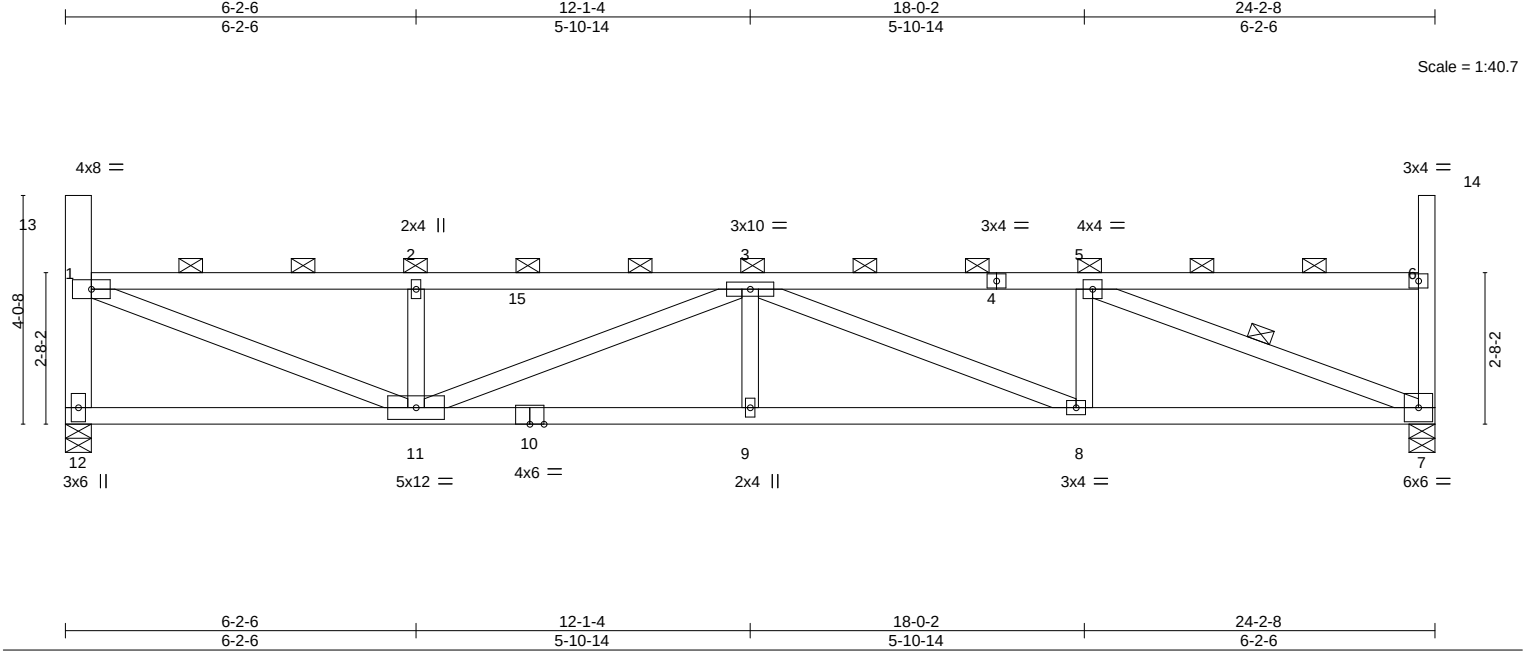
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 5-18=-48, 8-14=-20
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-18=-48, 5=-48-to-7=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 5-18=-36, 8-14=-20
- Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-18=-36, 5=-36-to-7=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 5-18=-36, 8-14=-20
- Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-18=-36, 5=-36-to-7=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 5-18=-36, 8-14=-20
- Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-18=-36, 5=-36-to-7=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 5-18=-36, 8-14=-20
- Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-18=-36, 5=-36-to-7=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 5-18=-60, 8-14=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-18=-60, 5=-60-to-7=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440388
J220197-G02R	A09	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:04 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-PV_P8E0cRxVwskjmgMdgJDv_idsYp27qrxPxVzhuEb



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) 0.17 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.76	Vert(CT) -0.30 8-9 >961 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.07 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 100 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (3-8-2 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-10-10 oc bracing.
WEBS 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt 5-7
12-13: 2x6 SPF 1650F 1.5E	

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-198(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/559, 1-2=-1949/1043, 2-3=-1949/1043, 3-5=-1971/1053
BOT CHORD 11-12=-358/321, 9-11=-1434/2517, 8-9=-1434/2517, 7-8=-1058/1971
WEBS 1-11=-1106/2019, 2-11=-402/339, 3-11=-622/418, 3-8=-600/406, 5-8=-69/423, 5-7=-2045/1115

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73



February 25, 2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A09	Flat	3	1	IS0440388
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:04 2022 Page 2
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LOAD CASE(S) Standard

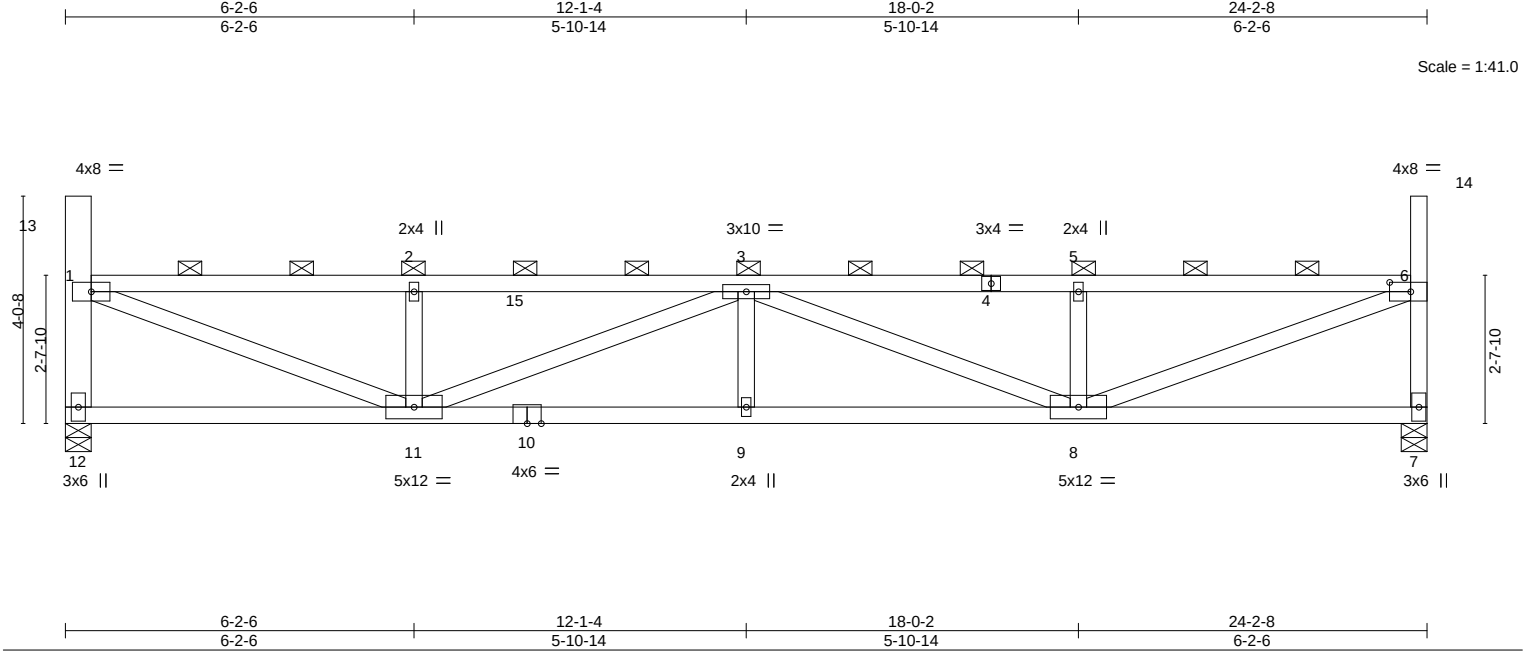
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A10	Flat	3	1	150440389
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:05 2022 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.17	MT20	197/144		
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.31				
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							
BCDL	10.0										
										Weight: 100 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-6-3 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-10-3 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-200(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-950/559, 1-2=-1983/1061, 2-3=-1983/1061, 3-5=-2004/1069, 5-6=-2004/1069, 6-7=-951/560
BOT CHORD 11-12=-365/327, 9-11=-1458/2562, 8-9=-1458/2562
WEBS 1-11=-1123/2049, 2-11=-401/338, 3-11=-632/427, 3-8=-611/412, 5-8=-408/345, 6-8=-1133/2074

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A10	Flat	3	1	IS0440389
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:05 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

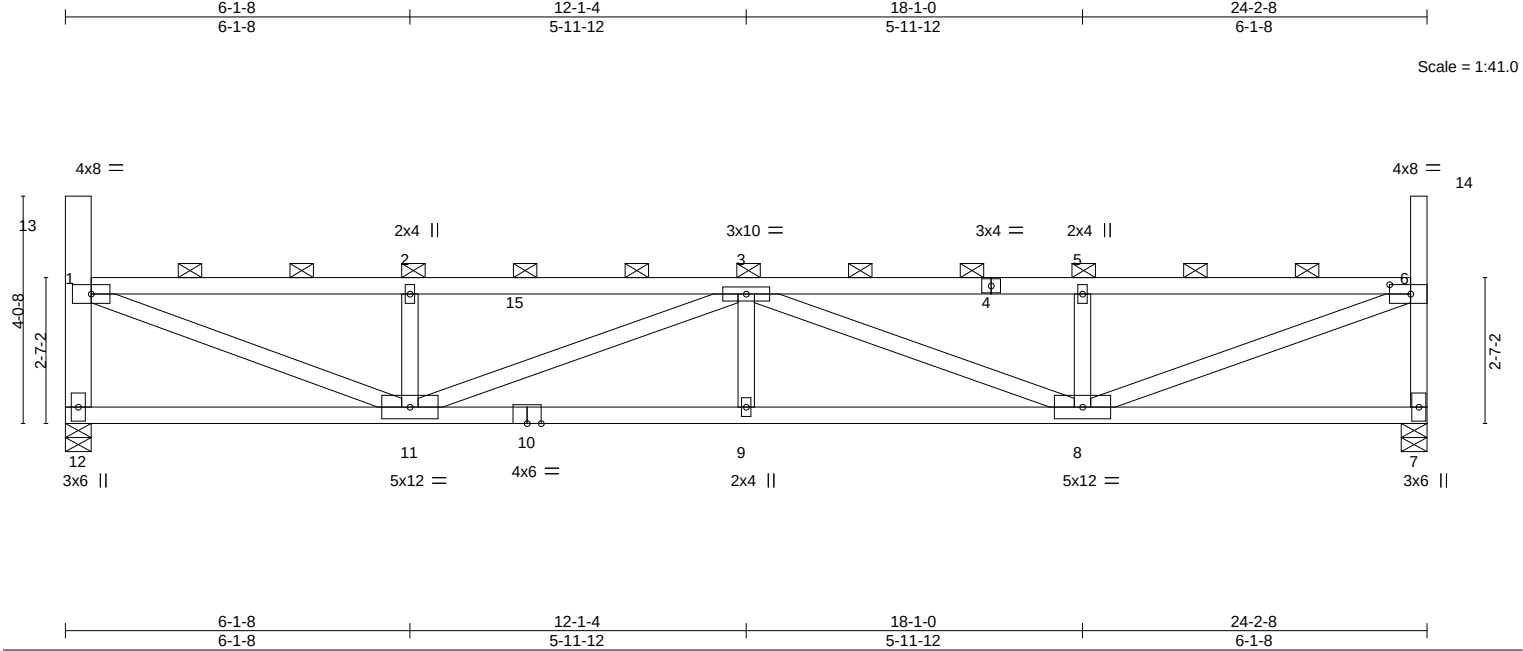


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440390
J220197-G02R	A11	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:06 2022 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.18 9 >999 240	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.32 8-9 >898 180				
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.05 7 n/a n/a				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							
BCDL	10.0										
								Weight: 100 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-6-8 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-9-11 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-202(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/559, 1-2=-2003/1073, 2-3=-2003/1073, 3-5=-2024/1082, 5-6=-2024/1082, 6-7=-951/560
BOT CHORD 11-12=-372/334, 9-11=-1484/2612, 8-9=-1484/2612
WEBS 1-11=-1134/2069, 2-11=-401/338, 3-11=-661/445, 3-8=-639/431, 5-8=-407/344, 6-8=-1145/2094

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A11	Flat	3	1	I50440390
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:06 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

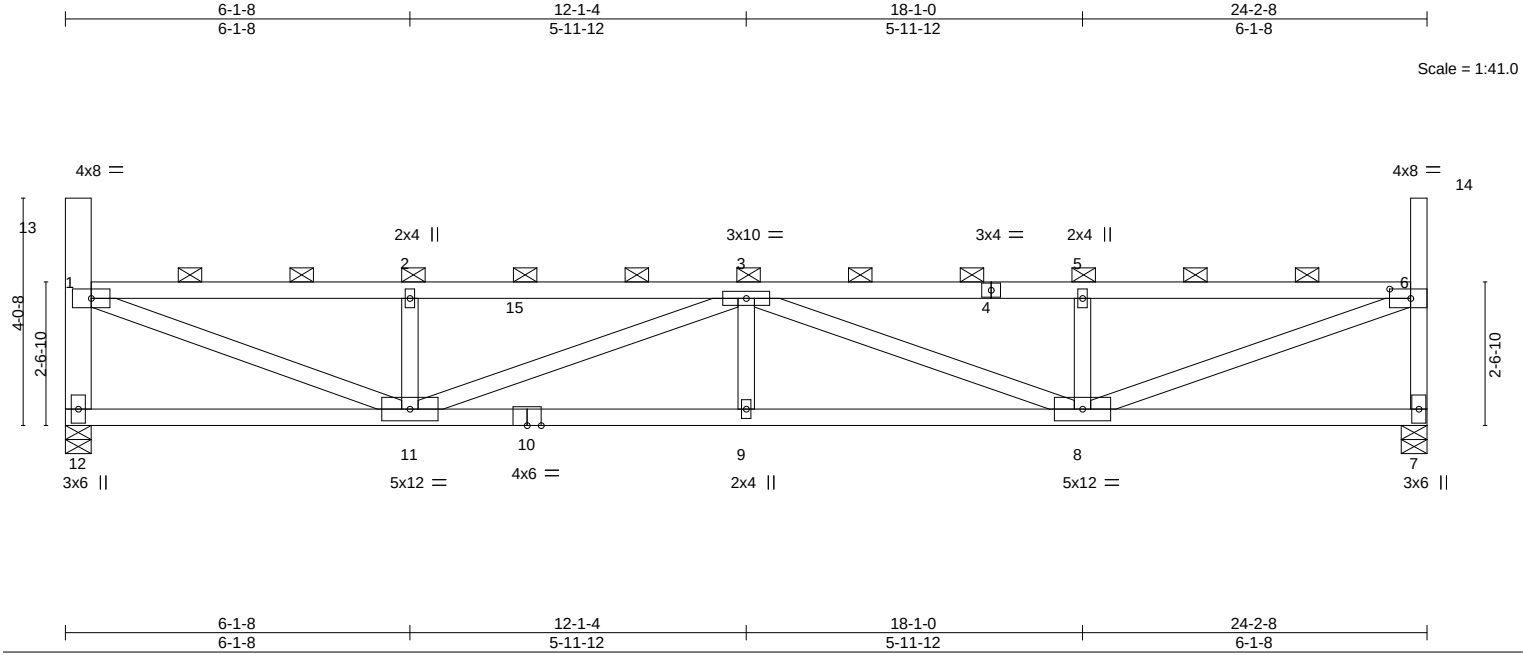


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440391
J220197-G02R	A12	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:07 2022 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.19	in (loc)	9	L/defl	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.33	8-9	>869	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-5-15 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-9-2 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-204(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/559, 1-2=-2039/1092, 2-3=-2039/1092, 3-5=-2061/1101, 5-6=-2061/1101, 6-7=-951/560
BOT CHORD 11-12=-379/341, 9-11=-1510/2659, 8-9=-1510/2659
WEBS 1-11=-1153/2100, 2-11=-400/338, 3-11=-672/454, 3-8=-650/439, 5-8=-407/344, 6-8=-1163/2126

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A12	Flat	3	1	IS0440391
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:07 2022 Page 2
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LOAD CASE(S) Standard

- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440392
J220197-G02R	A13	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:08 2022 Page 1
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6-1-8 5-11-12 5-11-12 6-1-8

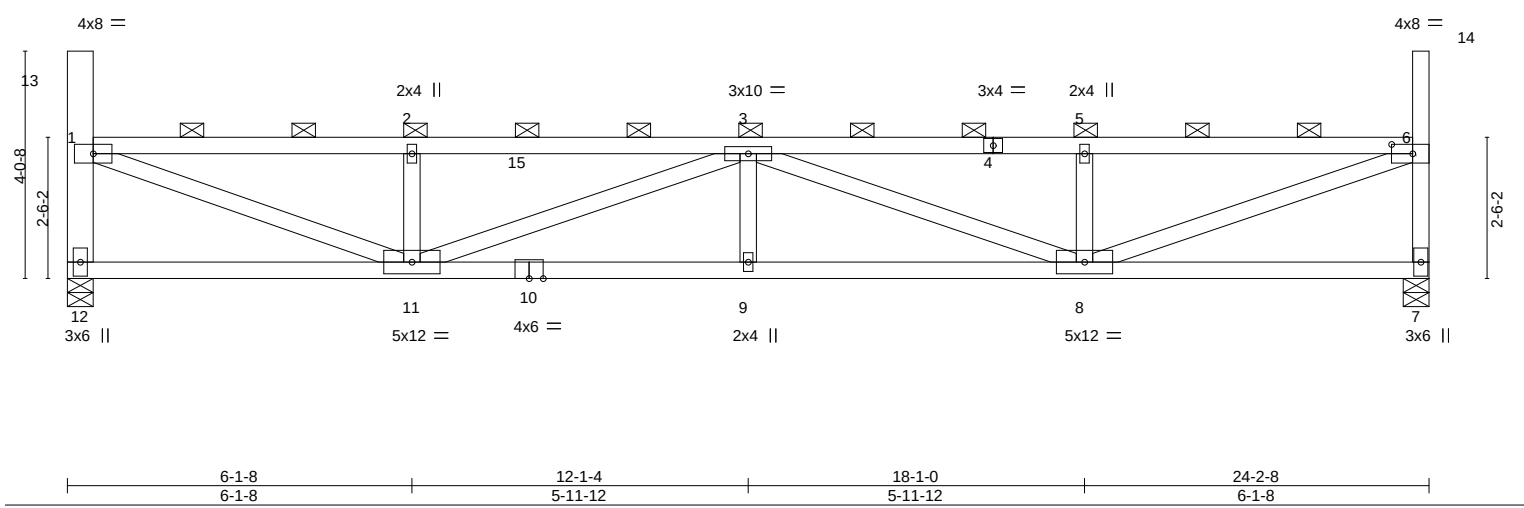


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.19	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.34	8-9	>840	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-5-7 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-8-10 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-206(LC 10)
 Max Uplift 12=-73(LC 10), 7=-73(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD	1-12=-951/559, 1-2=-2077/1112, 2-3=-2077/1112, 3-5=-2099/1121, 5-6=-2099/1121, 6-7=-951/560
BOT CHORD	11-12=-386/347, 9-11=-1536/2708, 8-9=-1536/2708
WEBS	1-11=-1172/2133, 2-11=-400/338, 3-11=-683/462, 3-8=-661/447, 5-8=-407/344, 6-8=-1182/2160

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard Except:
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58 7-12=-20



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A13	Flat	3	1	I50440392
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:08 2022 Page 2
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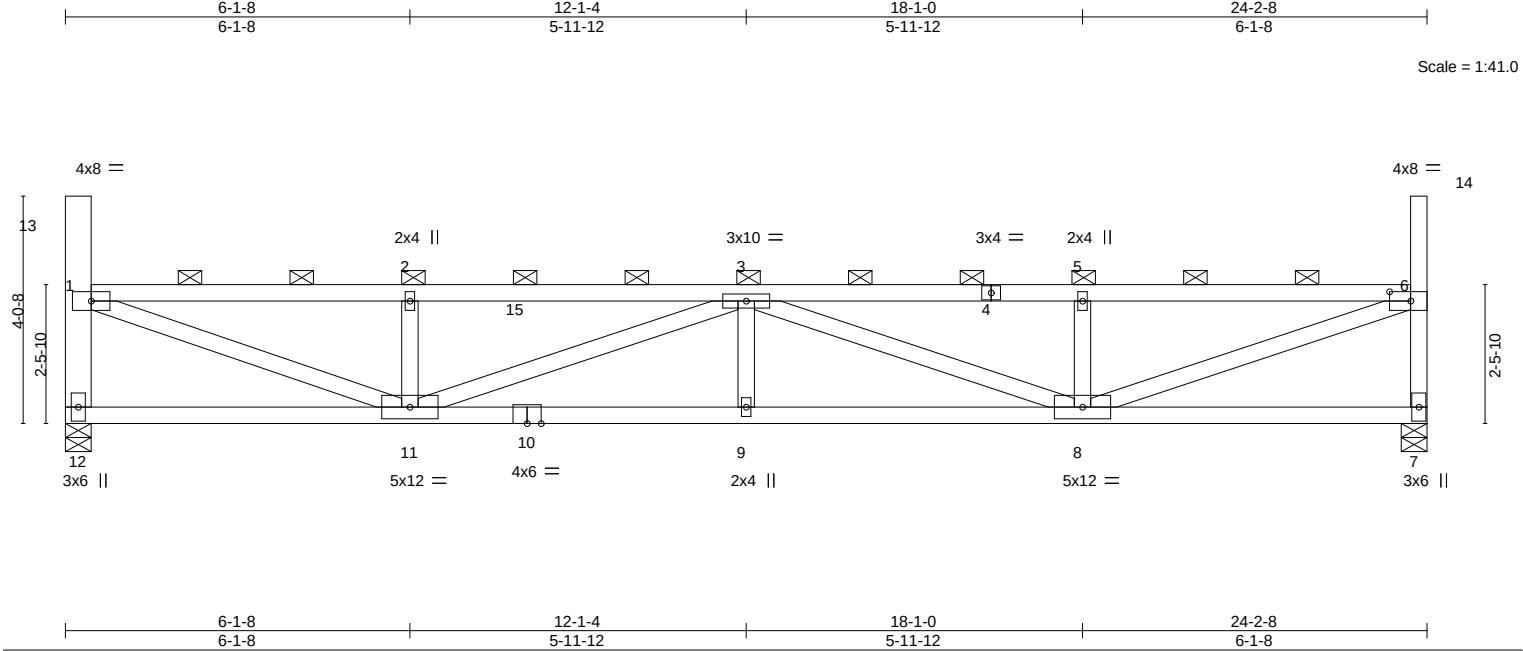
- LOAD CASE(S)** Standard Except:
- Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-59-to-6=-48
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-47-to-6=-36
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-47-to-6=-36
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-47-to-6=-36
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-47-to-6=-36
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440393
J220197-G02R	A14	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:09 2022 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.20	9	>999	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.35	8-9	>812		
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	7	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS						Weight: 99 lb	FT = 20%
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-4-15 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-8-2 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-209(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-950/560, 1-2=-2115/1133, 2-3=-2115/1133, 3-5=-2138/1142, 5-6=-2138/1142, 6-7=-951/561
BOT CHORD 11-12=-394/354, 9-11=-1563/2760, 8-9=-1563/2760
WEBS 1-11=-1191/2167, 2-11=-400/337, 3-11=-695/471, 3-8=-672/456, 5-8=-406/344, 6-8=-1202/2194

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A14	Flat	3	1	IS0440393
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:09 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

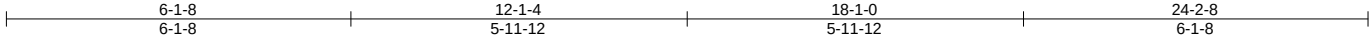
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A15	Flat	3	1	ISO440394

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:10 2022 Page 1
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Job Reference (optional)



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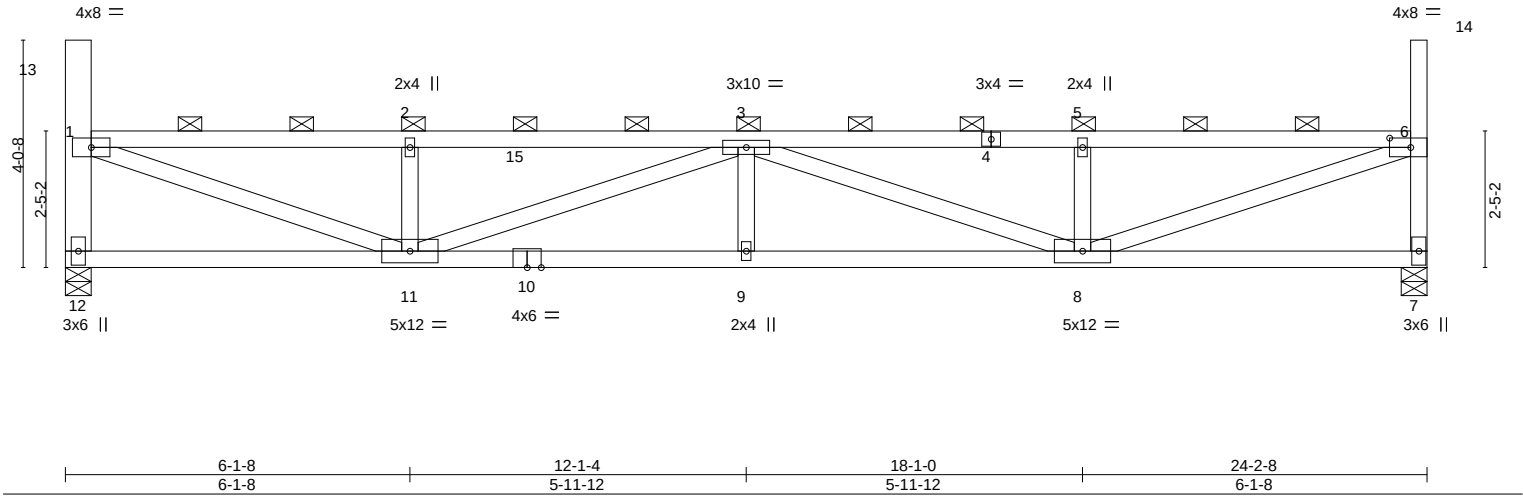


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.21 9 >999	MT20	GRIP 197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.36 8-9 >784		
TCDL	10.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.06 7 n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS				Weight: 99 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-4-7 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-7-9 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-211(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-950/560, 1-2=-2156/1155, 2-3=-2156/1155, 3-5=-2179/1164, 5-6=-2179/1164, 6-7=-950/561
BOT CHORD 11-12=-402/361, 9-11=-1592/2813, 8-9=-1592/2813
WEBS 1-11=-1212/2203, 2-11=-399/337, 3-11=-707/480, 3-8=-684/465, 5-8=-406/344, 6-8=-1222/2230

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A15	Flat	3	1	IS0440394
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:10 2022 Page 2
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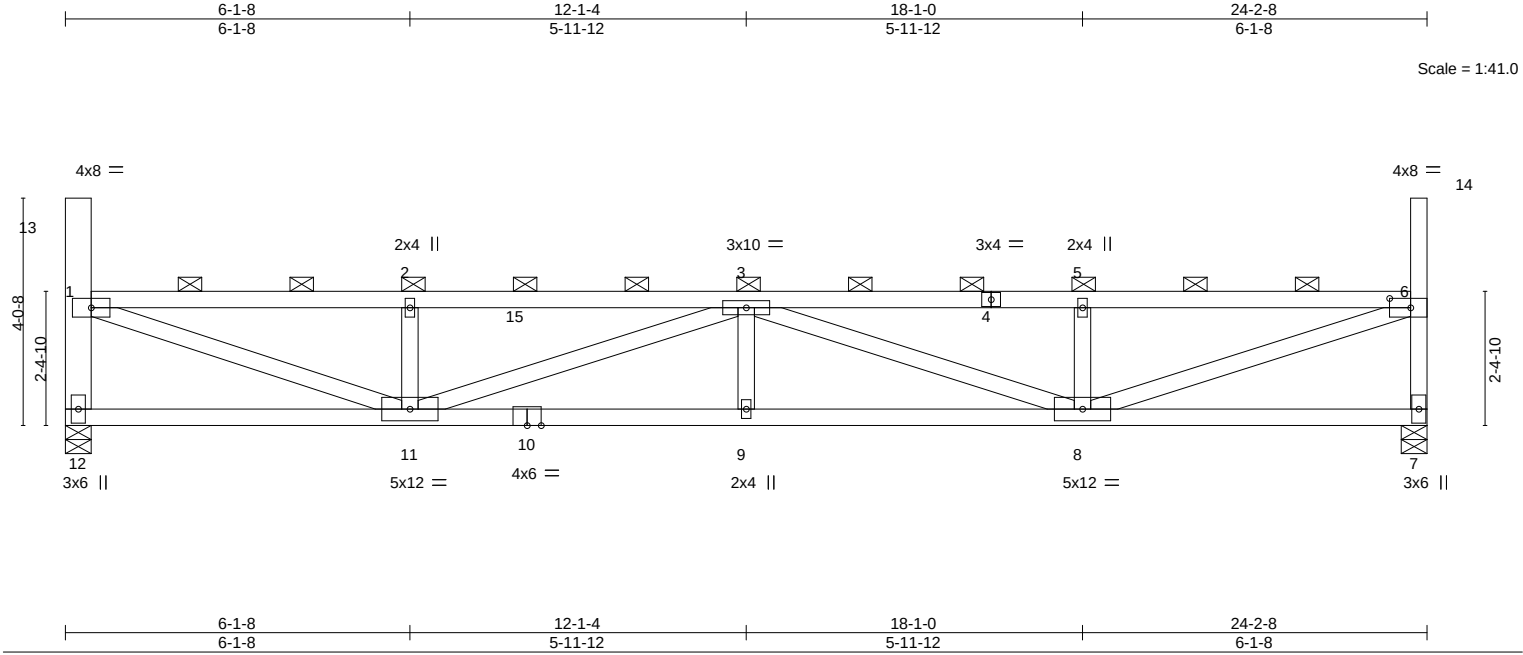
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440395
J220197-G02R	A16	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:11 2022 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.21	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.38	8-9	>756	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-3-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-8-5 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-213(LC 10)
Max Uplift 12=-16(LC 10), 7=-15(LC 11)
Max Grav 12=1012(LC 2), 7=1012(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-950/502, 1-2=-2198/1099, 2-3=-2198/1099, 3-5=-2221/1107, 5-6=-2221/1107, 6-7=-950/503
BOT CHORD 11-12=-400/377, 9-11=-1552/2868, 8-9=-1552/2868
WEBS 1-11=-1160/2240, 2-11=-399/309, 3-11=-710/499, 3-8=-686/485, 5-8=-405/314, 6-8=-1169/2268

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A16	Flat	3	1	I50440395
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:11 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-isv3ce5?o5NwCol6bLFJ5ih9JSDZyCBsSWcp_?zhuEU

LOAD CASE(S) Standard

- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A16	Flat	3	1	IS0440395
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

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LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A16	Flat	3	1	ISO440395
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:11 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-isv3ce5?o5NwCol6bLFJ5ih9JSDZyCBsSWcp_?zhuEU

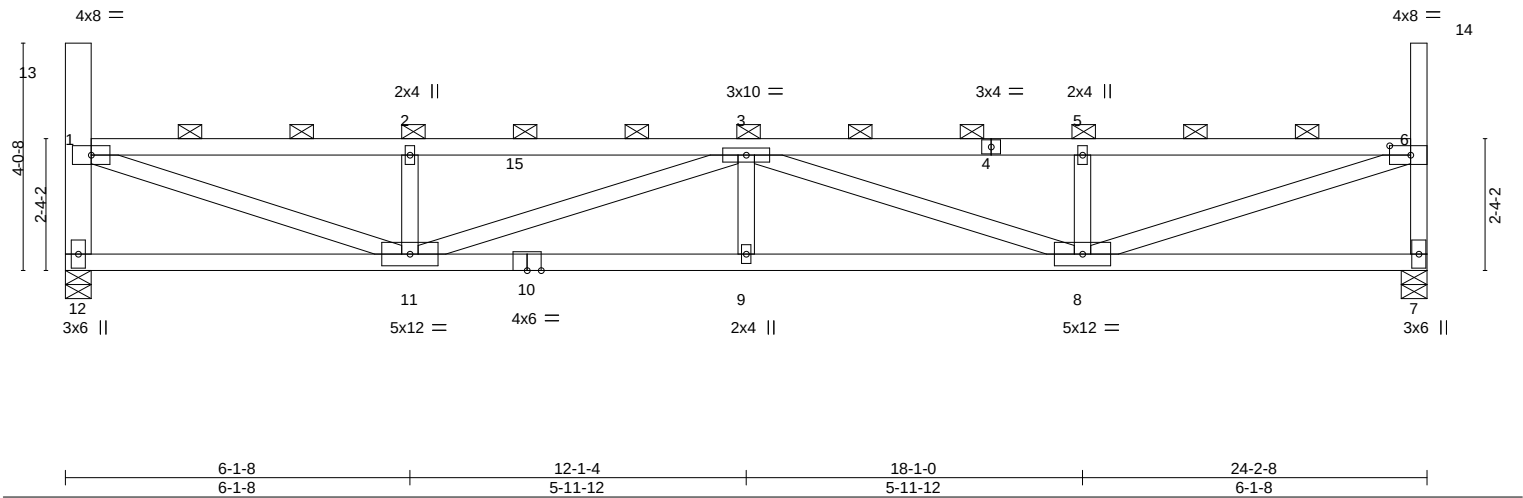
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-38, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-28, 7-12=-12
- Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-15=-28, 4=-29-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=4, 7-12=-12
- Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-15=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-15=-50, 4=-50-to-6=-65



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440396
J220197-G02R	A17	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:12 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-A2TRq_6dZOWnqyKI82mYevEKtsZXhfG?hALMXRzhuET
6-1-8 12-1-4 18-1-0 24-2-8
6-1-8 5-11-12 5-11-12 6-1-8
Scale = 1:41.0



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.22	in (loc)	9	L/defl	>999	L/d	240
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.39	8-9	>728	180			
TCDL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.06	7	n/a	n/a			
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS									
BCDL	10.0												
											Weight: 98 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-3-5 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-7-13 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-215(LC 10)
Max Uplift 12=-16(LC 10), 7=-15(LC 11)
Max Grav 12=1012(LC 2), 7=1012(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/502, 1-2=-2241/1121, 2-3=-2241/1121, 3-5=-2265/1129, 5-6=-2265/1129, 6-7=-950/503
BOT CHORD 11-12=-408/385, 9-11=-1580/2925, 8-9=-1580/2925
WEBS 1-11=-1181/2278, 2-11=-399/309, 3-11=-723/509, 3-8=-698/494, 5-8=-405/314, 6-8=-1190/2307

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A17	Flat	3	1	I50440396
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:7aJbUL?xQxY50gva_Jb6JFzkpl-A2TRq_6dZOWnqyKI82mYevEKtsZXhfG?hALMXRzhuET

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
- Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
- Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
- Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A17	Flat	3	1	IS0440396
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:7aJbUL?xQxY50gva_Jb6JFzkpl-A2TRq_6dZOWnqyKI82mYevEKtsZXhfG?hALMXRzhuET

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A17	Flat	3	1	IS0440396
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

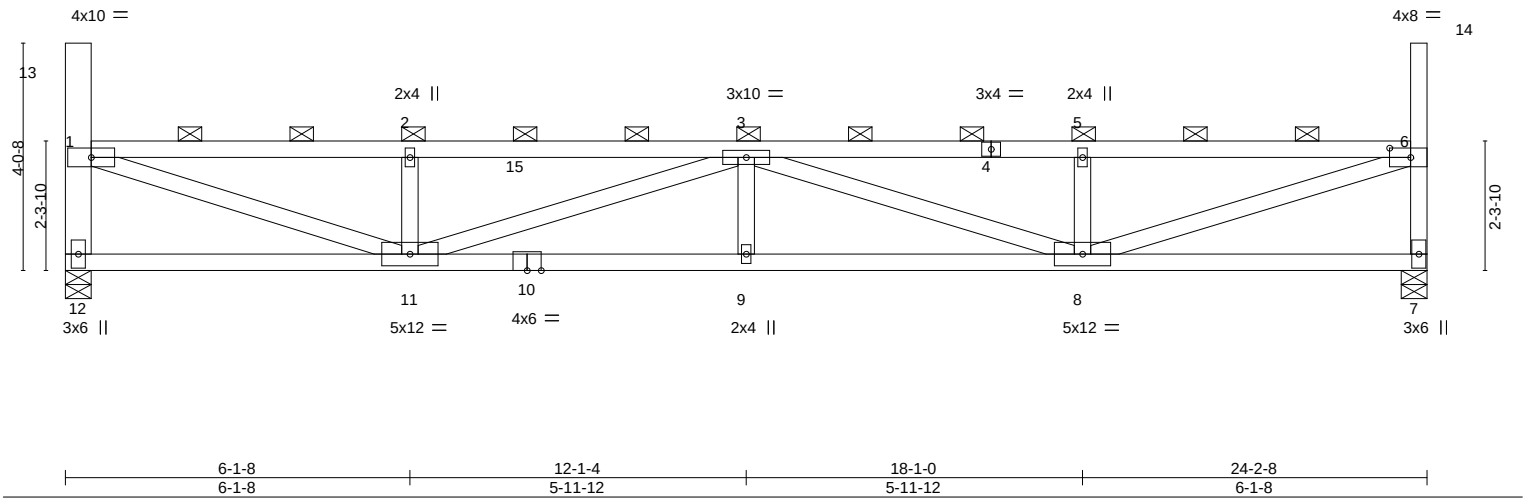
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:12 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-A2TRq_6dZOWnqyKI82mYevEKtsZXhfG?hALMXRzhuET

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440397
J220197-G02R	A18	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:13 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-eE1p1J7FKieeS6vVilHnA7nVRFvVQ6K9vq5v3tzhuES
6-1-8 12-1-4 18-1-0 24-2-8
6-1-8 5-11-12 5-11-12 6-1-8
Scale = 1:41.0



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.23	9	>999	240	MT20	197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.41	8-9	>701	180			
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	7	n/a	n/a			
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							Weight: 98 lb	FT = 20%	
BCDL	10.0												

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-2-12 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-7-4 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-217(LC 10)
Max Uplift 12=-16(LC 10), 7=-16(LC 11)
Max Grav 12=1012(LC 2), 7=1012(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/503, 1-2=-2286/1143, 2-3=-2286/1143, 3-5=-2310/1152, 5-6=-2310/1152, 6-7=-949/504
BOT CHORD 11-12=-416/392, 9-11=-1610/2985, 8-9=-1610/2985
WEBS 1-11=-1203/2318, 2-11=-398/309, 3-11=-737/520, 3-8=-712/504, 5-8=-404/314, 6-8=-1212/2347

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A18	Flat	3	1	I50440397
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-eE1p1J7FKieeS6vVilHnA7nVRFvVQ6K9vq5v3tzhuES

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
- Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
- Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
- Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440397
J220197-G02R	A18	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:13 2022 Page 3
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-eE1p1J7FKieeS6vVilHnA7nVRFvVQ6K9vq5v3tzhuES

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A18	Flat	3	1	IS0440397
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:13 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-eE1p1J7FKieeS6vVilHnA7nVRFvVQ6K9vq5v3tzhuES

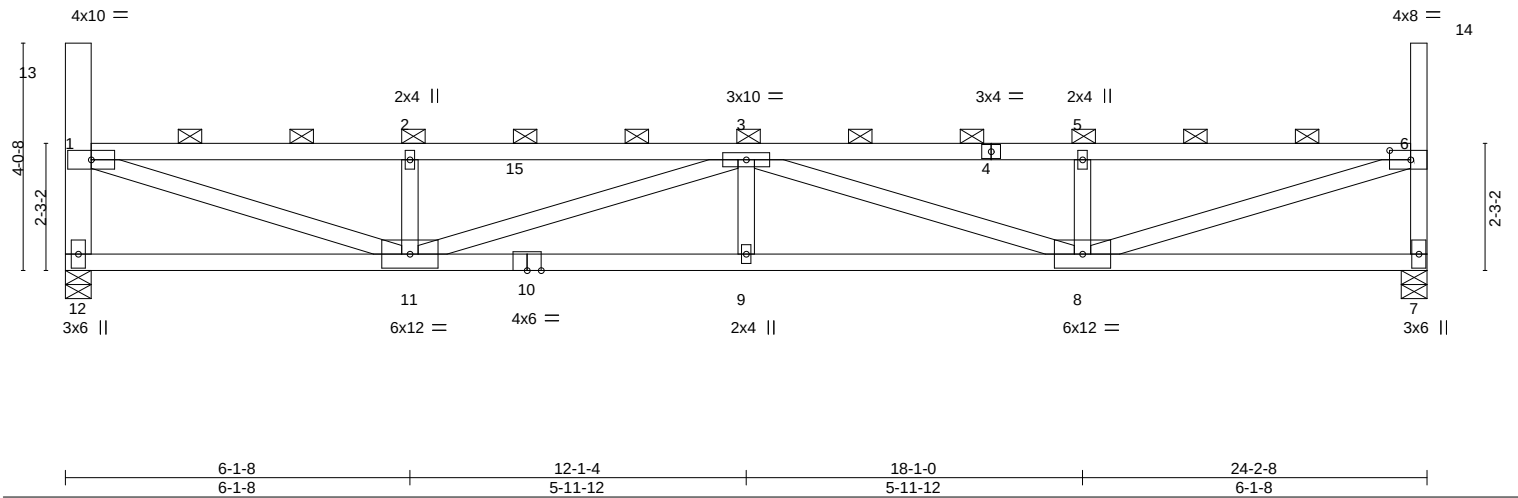
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440398
J220197-G02R	A19	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:14 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-6RaBFf7t5?mV3GUhGTo0jKJgzfES9Y0I8UqTbKzhuER
6-1-8 12-1-4 18-1-0 24-2-8
6-1-8 5-11-12 5-11-12 6-1-8

Scale = 1:41.0



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	in	(loc)	l/defl	L/d	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	0.24	9	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.84	-0.42	8-9	>675	180		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		0.06	7	n/a	n/a		
BCDL	10.0									Weight: 98 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-2-4 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-6-12 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=220(LC 13)
Max Uplift 12=-16(LC 10), 7=-16(LC 11)
Max Grav 12=1012(LC 2), 7=1012(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/503, 1-2=-2333/1167, 2-3=-2333/1167, 3-5=-2358/1175, 5-6=-2358/1175, 6-7=-949/504
BOT CHORD 11-12=-425/400, 9-11=-1641/3047, 8-9=-1641/3047
WEBS 1-11=-1225/2360, 2-11=-398/308, 3-11=-751/531, 3-8=-726/515, 5-8=-404/314, 6-8=-1235/2389

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A19	Flat	3	1	I50440398
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:14 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-6RaBFf7t5?mV3GUhGT0jKJgzfES9YOI8UqTbKzhuER

LOAD CASE(S) Standard

- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A19	Flat	3	1	IS0440398
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:14 2022 Page 3
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LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A19	Flat	3	1	ISO440398
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:14 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-6RaBFf7t5?mV3GUhGT0jKJgzfES9YOI8UqTbKzhuER

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-38, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-28, 7-12=-12
- Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-15=-28, 4=-29-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=4, 7-12=-12
- Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-15=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

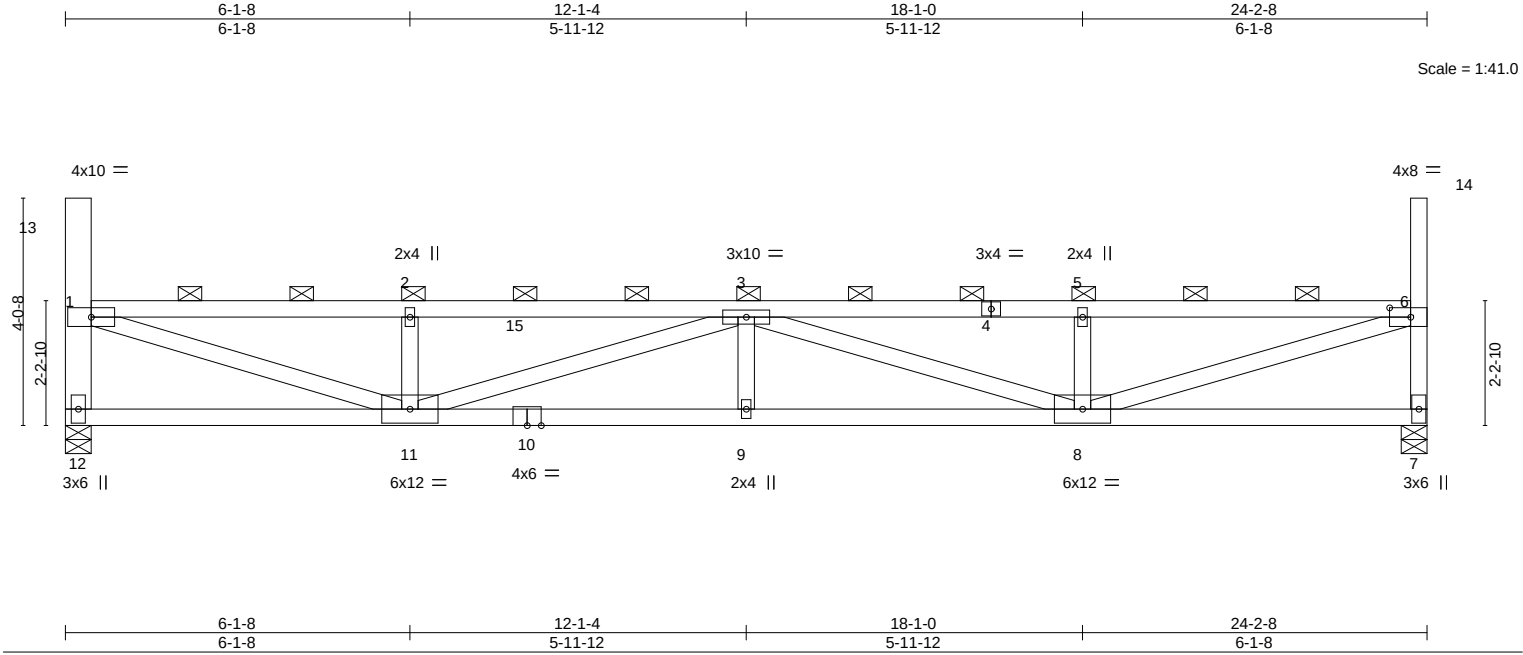


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440399
J220197-G02R	A20	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:15 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-ad8aS78WsJuMhQ3tqAKFFYsrV3aOu?RRN8a07mzhuEQ



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.25	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.44	8-9	>648	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							Weight: 98 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-1-10 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-6-2 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-222(LC 10)
Max Uplift 12=-16(LC 10), 7=-16(LC 11)
Max Grav 12=1012(LC 2), 7=1012(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/503, 1-2=-2382/1192, 2-3=-2382/1192, 3-5=-2407/1200, 5-6=-2407/1200, 6-7=-949/504
BOT CHORD 11-12=-433/408, 9-11=-1673/3112, 8-9=-1673/3112
WEBS 1-11=-1249/2403, 2-11=-397/308, 3-11=-766/542, 3-8=-740/526, 5-8=-403/314, 6-8=-1259/2433

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A20	Flat	3	1	IS0440399
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:15 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-ad8aS?8WsJuMhQ3tqAKFFYsrV3aOu?RRN8a07mzhuEQ

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
- Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
- Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
- Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A20	Flat	3	1	IS0440399
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:15 2022 Page 3
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LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A20	Flat	3	1	ISO440399
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:15 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-ad8aS?8WsJuMhQ3tqAKFFYsrV3aOu?RRN8a07mzhuEQ

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-38, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-28, 7-12=-12
- Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-15=-28, 4=-29-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=4, 7-12=-12
- Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-15=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440400
J220197-G02R	A21	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:16 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpL2piyfL98dd0DJae4NurUolP??TwJdRdbboJagCzhuEP
6-1-8 12-1-4 18-1-0 24-2-8
6-1-8 5-11-12 5-11-12 6-1-8
Scale = 1:41.0

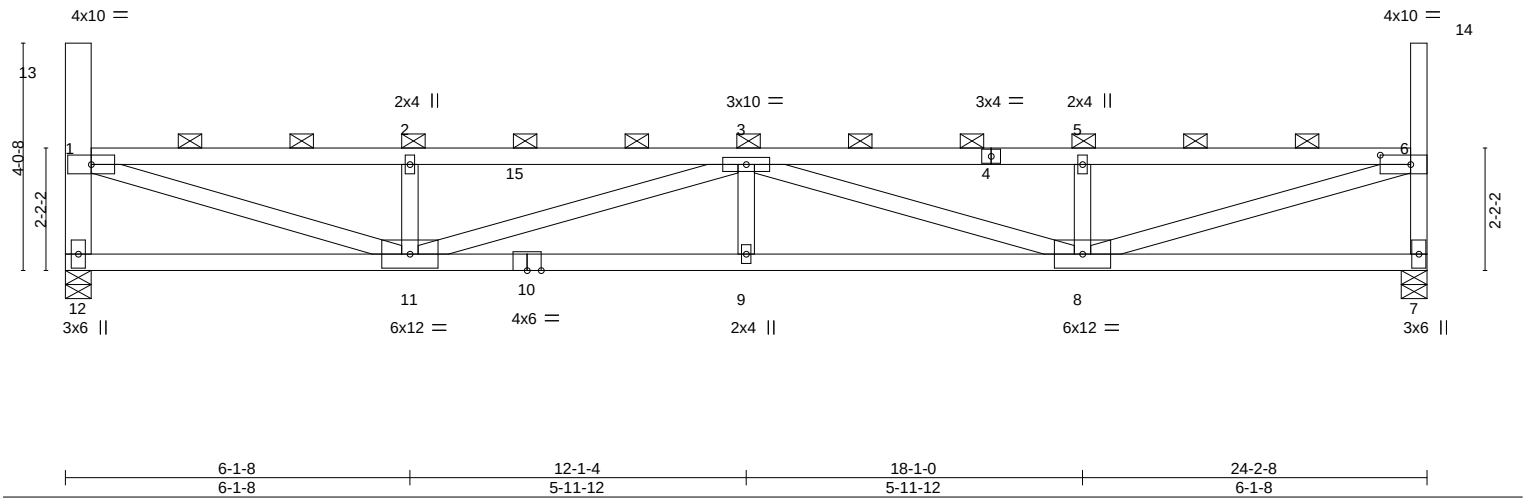


Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	in (loc)	I/defl	L/d	GRIP
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.94	0.26 9	>999	240	197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	-0.46 8-9	>622	180	
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		0.06 7	n/a	n/a	
BCDL	10.0								
								Weight: 98 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-1-0 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-4-6 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-224(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/561, 1-2=-2433/1304, 2-3=-2433/1304, 3-5=-2459/1314, 5-6=-2459/1314, 6-7=-948/562
BOT CHORD 11-12=-453/405, 9-11=-1784/3180, 8-9=-1784/3180
WEBS 1-11=-1353/2448, 2-11=-397/336, 3-11=-792/544, 3-8=-767/526, 5-8=-403/343, 6-8=-1365/2479

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A21	Flat	3	1	IS0440400
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:16 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-2piyfL98dd0DJae4NurUoIP??TwJdRdbboJagCzhuEP

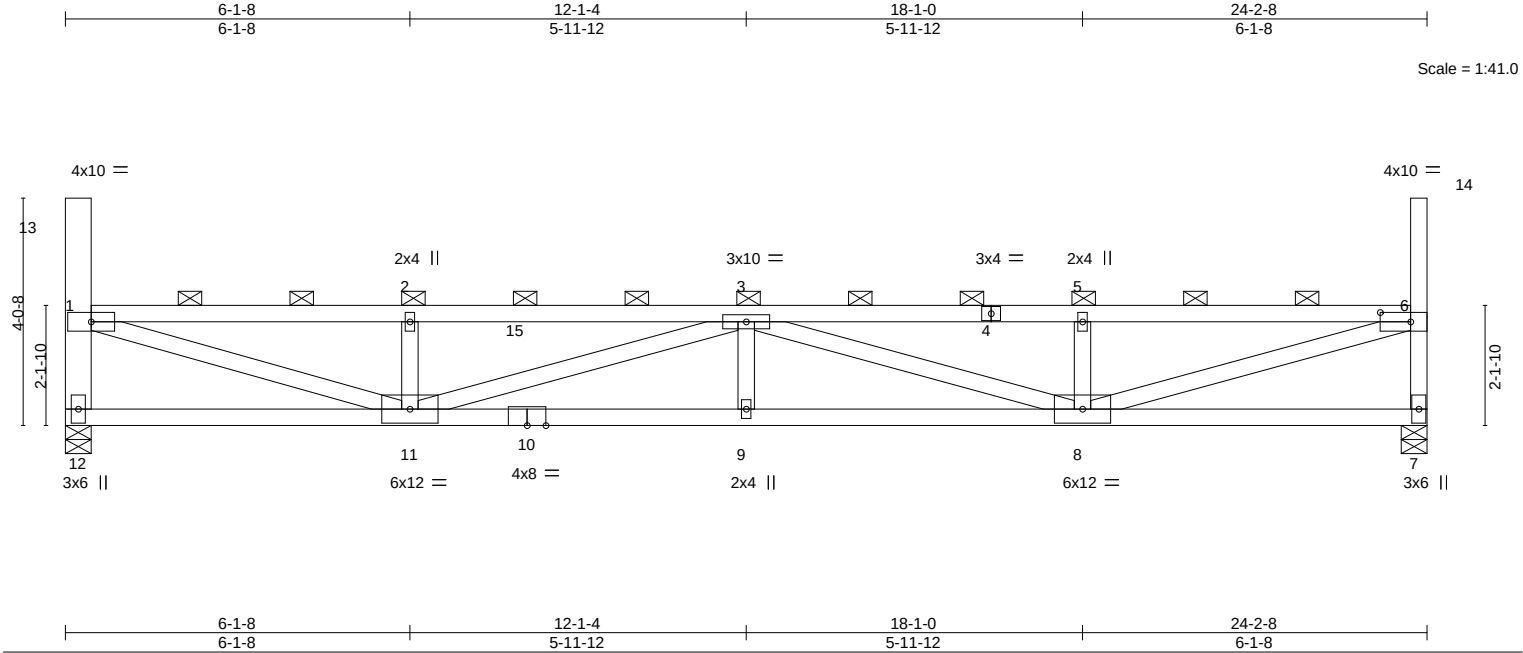
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440401
J220197-G02R	A22	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:17 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-WOGKthAmNw84wjDGxbMjKzx9TtFDmudkqS37CezhuEO



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.27	in (loc)	9	I/defl	240
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.48	8-9	>597	180	
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.07	7	n/a	n/a	
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							
BCDL	10.0										
										Weight: 97 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-0-5 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-3-13 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-226(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/561, 1-2=-2487/1332, 2-3=-2487/1332, 3-5=-2513/1342, 5-6=-2513/1342, 6-7=-948/563
BOT CHORD 11-12=-463/413, 9-11=-1820/3250, 8-9=-1820/3250
WEBS 1-11=-1380/2496, 2-11=-396/336, 3-11=-809/556, 3-8=-783/538, 5-8=-402/343, 6-8=-1392/2527

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A22	Flat	3	1	I50440401
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:17 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-W0GKthAmNw84wjDGxbMjKzx9TtFDmudkqS37CezhuEO

LOAD CASE(S) Standard

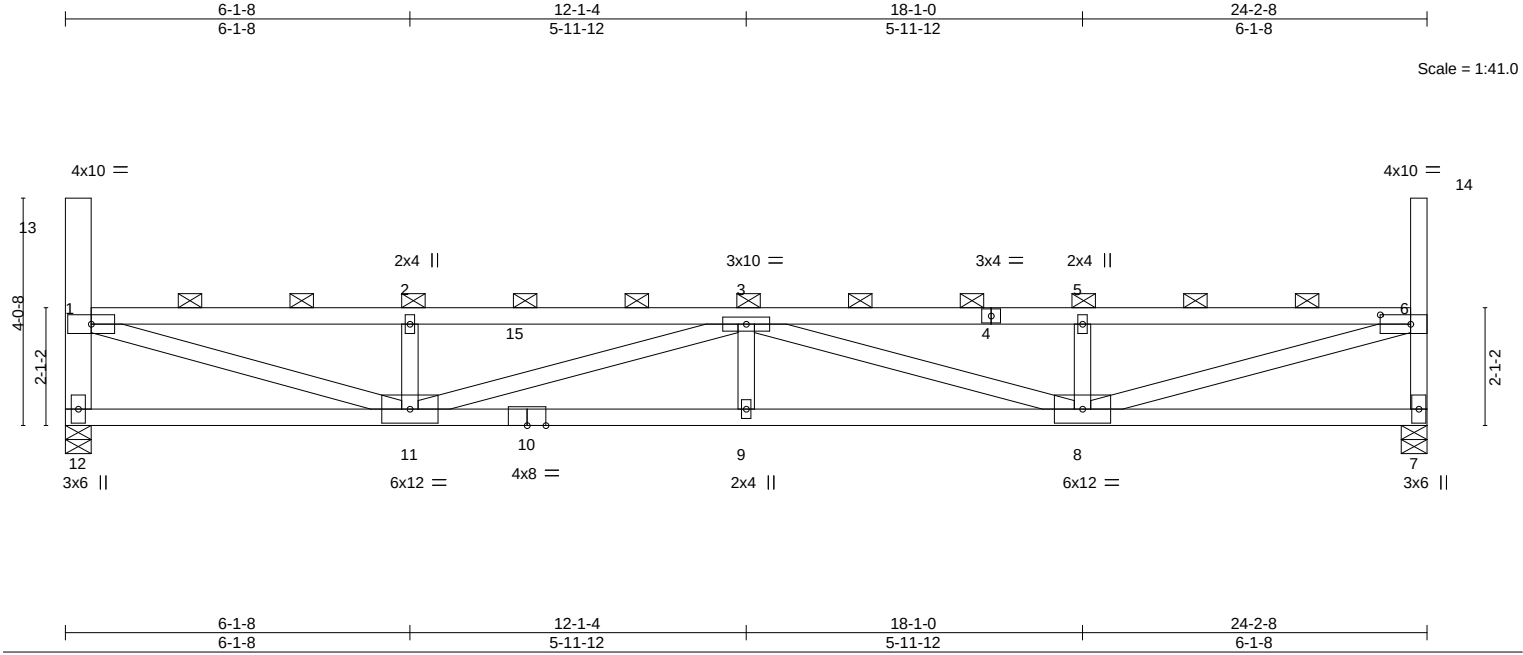
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440402
J220197-G02R	A23	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:18 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-_Cqi41BO8EGxYtoSVJtytAUKxGa55LVu360gk5zhuEN



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	0.28	in (loc)	9	L/defl	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.50	8-9	>572	L/d		
TCDL	10.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (2-11-10 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-4-7 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-228(LC 12)
Max Uplift 12=-17(LC 10), 7=-17(LC 11)
Max Grav 12=1012(LC 2), 7=1012(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/503, 1-2=-2542/1272, 2-3=-2542/1272, 3-5=-2569/1281, 5-6=-2569/1281, 6-7=-947/505
BOT CHORD 11-12=-461/433, 9-11=-1778/3324, 8-9=-1778/3324
WEBS 1-11=-1326/2545, 2-11=-396/308, 3-11=-816/580, 3-8=-788/562, 5-8=-402/313, 6-8=-1336/2577

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A23	Flat	3	1	IS0440402
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:18 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-_Cqi41BO8EGxYtoSVJtytAUKxGa55LVu36ogk5zhuEN

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
- Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
- Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
- Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A23	Flat	3	1	IS0440402
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:18 2022 Page 3
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LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A23	Flat	3	1	IS0440402
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:18 2022 Page 4
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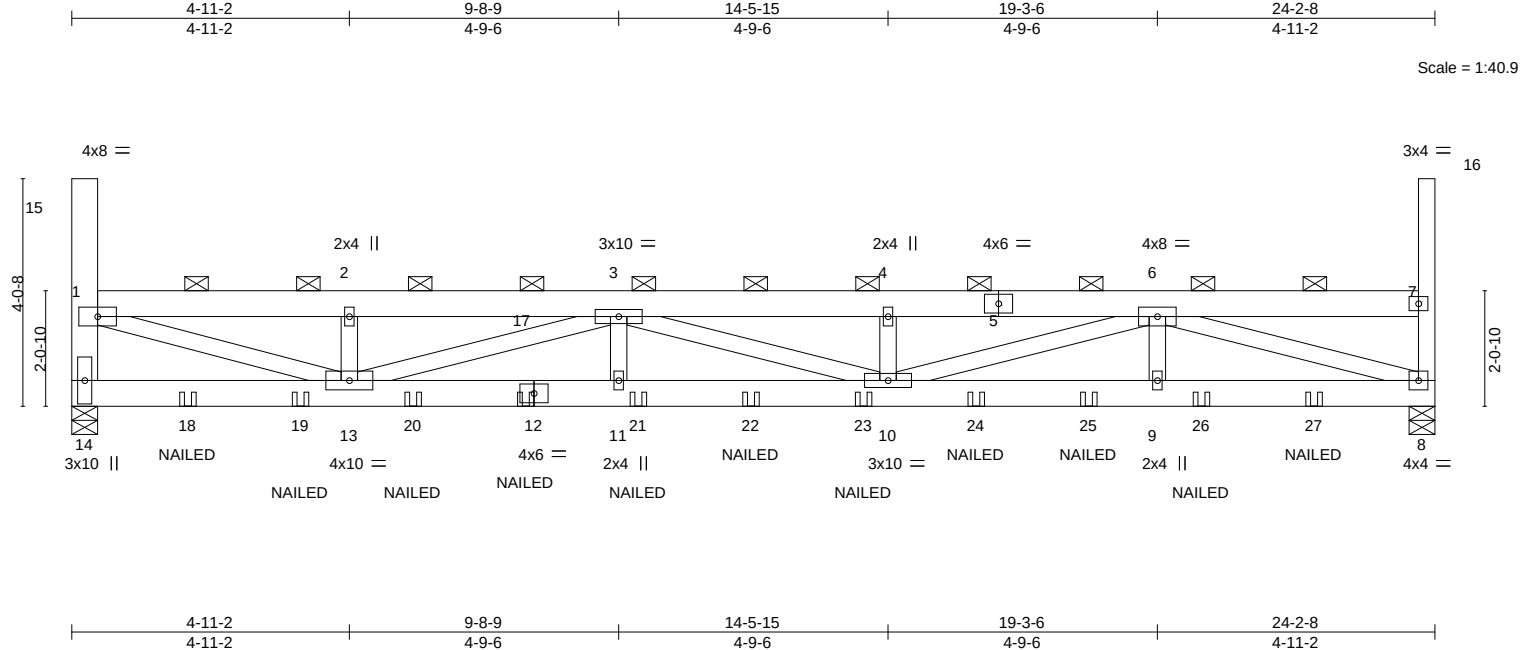
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0440403
J220197-G02F	A24	FLAT GIRDER	3	2	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-D54xjk0xa1YZ21STB9TXvmZhH7Z8P88EDmJ30IzhjOx 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:34:58 2022 Page 1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.33	Vert(LL) 0.27 10-11 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.39	Vert(CT) -0.26 10-11 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) -0.04 8 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 255 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD 2x6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 9-10-12 oc bracing.
WEBS 2x4 SPF No.2 *Except*	
14-15: 2x6 SPF 1650F 1.5E	

REACTIONS.	(lb/size) 14=1344/0-5-8, 8=1340/0-5-8
	Max Horz 14=-232(LC 10)
	Max Uplift 14=-1006(LC 10), 8=-877(LC 11)
	Max Grav 14=1371(LC 29), 8=1369(LC 29)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-14=-1231/882, 1-2=-3229/2589, 2-17=-3229/2589, 3-17=-3229/2589, 3-4=-4864/3819, 4-5=-4864/3819, 5-6=-4864/3819, 6-7=-223/266
BOT CHORD	14-18=-517/406, 18-19=-517/406, 13-19=-517/406, 13-20=-3855/4854, 12-20=-3855/4854, 11-12=-3855/4854, 11-21=-3855/4854, 21-22=-3855/4854, 22-23=-3855/4854, 10-23=-3855/4854, 10-24=-2423/3287, 24-25=-2423/3287, 9-25=-2423/3287, 9-26=-2423/3287, 26-27=-2423/3287, 8-27=-2423/3287
WEBS	1-13=-2476/3168, 2-13=-271/260, 3-13=-1712/1402, 3-11=-349/251, 4-10=-280/263, 6-10=-1482/1662, 6-9=-270/255, 6-8=-3292/2443

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1006 lb uplift at joint 14 and 877 lb uplift at joint 8.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0440403
J220197-G02F	A24	FLAT GIRDER	3	2	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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- NOTES-**
- 11) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-17=-58, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 12=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-73-to-17=-58, 5=-58-to-7=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-17=-48, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 12=-54(B) 18=-54(B) 19=-54(B) 20=-54(B) 21=-54(B) 22=-54(B) 23=-54(B) 24=-54(B) 25=-54(B) 26=-54(B) 27=-57(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-17=-48, 5=-49-to-7=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 5-17=-36, 8-14=-20
 - Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
 - Concentrated Loads (lb)
 - Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=92(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 5-17=-36, 8-14=-20
 - Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
 - Concentrated Loads (lb)
 - Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=61(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 5-17=-36, 8-14=-20
 - Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
 - Concentrated Loads (lb)
 - Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=82(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 5-17=-36, 8-14=-20
 - Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
 - Concentrated Loads (lb)
 - Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=82(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-17=-60, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 12=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=67(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-17=-60, 5=-60-to-7=-75



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0440404
J220197-G02R	A25	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:21 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-PnWrij2DGR9eWPLW1ARQfVp6uUUIUmjKl41LLQzhuEK
13-2-12
6-7-6

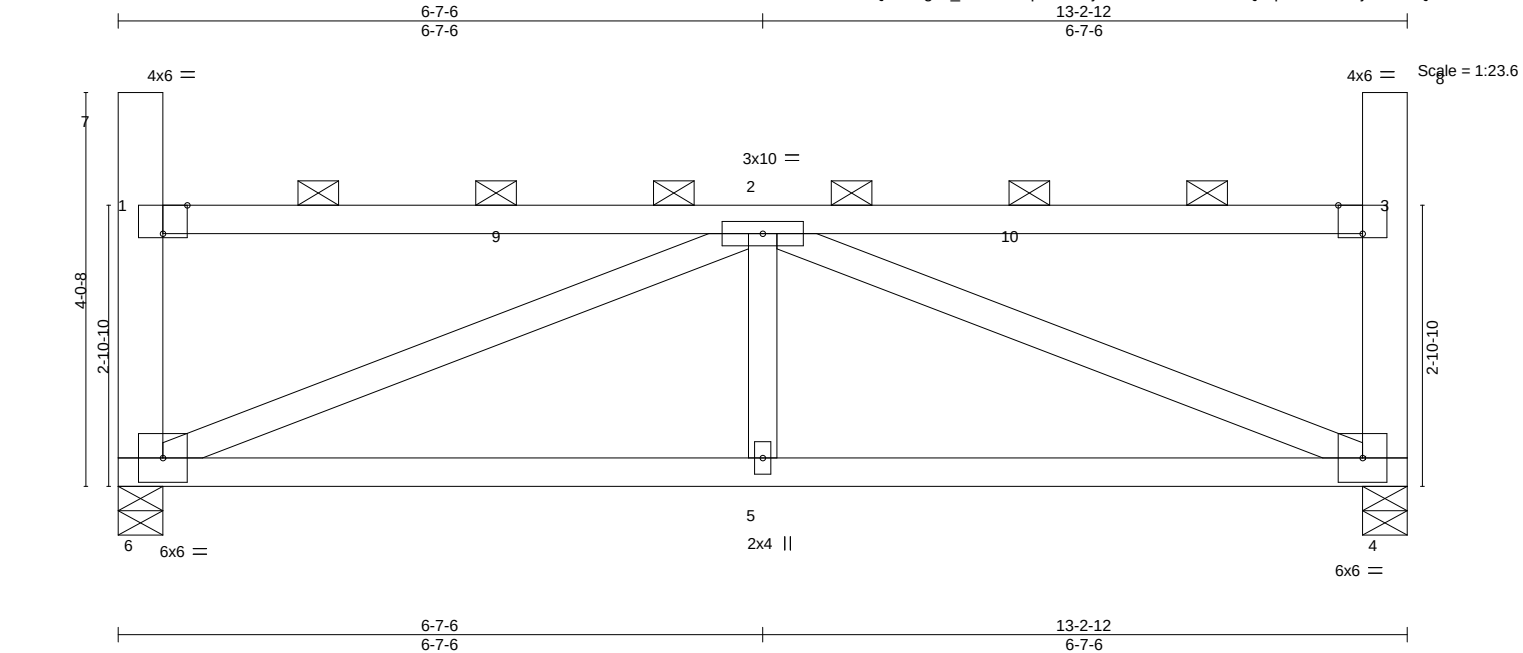


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [3:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.04	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.08		
TCDL	10.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.02		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS					
BCDL	10.0							Weight: 60 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-11-2 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	6-7,4-8: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-187(LC 10)
Max Uplift 6=-35(LC 10), 4=-35(LC 11)
Max Grav 6=539(LC 2), 4=539(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=-709/765, 4-5=-709/765
WEBS 2-6=-761/731, 2-5=0/284, 2-4=-761/727

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - C-C wind load user defined.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 9-10=-58, 4-6=-20

Trapezoidal Loads (plf)

Vert: 1=-73-to-9=-58, 10=-58-to-3=-73



February 25,2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A25	Flat	2	1	IS0440404
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:22 2022 Page 2
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LOAD CASE(S)

- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-60, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-60, 10=-60-to-3=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-50, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-9=-50, 10=-50-to-3=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-48, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-9=-48, 10=-48-to-3=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 9-10=-20, 4-6=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-9=-20, 10=-20-to-3=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=72, 4-6=-12
Horz: 1-6=22, 1-7=108, 3-4=37, 3-8=61
Trapezoidal Loads (plf)
Vert: 1=57-to-9=72, 10=72-to-3=57
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=72, 4-6=-12
Horz: 1-6=-37, 1-7=-61, 3-4=-22, 3-8=-108
Trapezoidal Loads (plf)
Vert: 1=57-to-9=72, 10=72-to-3=57
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-33, 4-6=-20
Horz: 1-6=-26, 1-7=39, 3-4=-34, 3-8=61
Trapezoidal Loads (plf)
Vert: 1=-48-to-9=-33, 10=-33-to-3=-48
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-33, 4-6=-20
Horz: 1-6=34, 1-7=-61, 3-4=26, 3-8=-39
Trapezoidal Loads (plf)
Vert: 1=-48-to-9=-33, 10=-33-to-3=-48
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=16, 4-6=-12
Horz: 1-6=12, 1-7=50, 3-4=18, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=16, 10=16-to-3=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=16, 4-6=-12
Horz: 1-6=-18, 1-7=-33, 3-4=-12, 3-8=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-9=16, 10=16-to-3=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-3, 4-6=-20
Horz: 1-6=24, 1-7=50, 3-4=6, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-3, 10=-3-to-3=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-3, 4-6=-20
Horz: 1-6=-6, 1-7=-33, 3-4=-24, 3-8=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-3, 10=-3-to-3=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=16, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=16, 10=16-to-3=1
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A25	Flat	2	1	I50440404
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:22 2022 Page 3
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LOAD CASE(S)

- Uniform Loads (plf)
Vert: 9-10=16, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7, 3-8=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-9=16, 10=16-to-3=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=16, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15, 3-8=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-9=16, 10=16-to-3=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=16, 4-6=-12
Horz: 1-6=-15, 1-7=-33, 3-4=-7, 3-8=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-9=16, 10=16-to-3=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-3, 4-6=-20
Horz: 1-6=19, 1-7=-33, 3-4=4, 3-8=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-3, 10=-3-to-3=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-3, 4-6=-20
Horz: 1-6=-4, 1-7=-33, 3-4=-19, 3-8=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-3, 10=-3-to-3=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 9-10=-20, 4-6=-20
- Trapezoidal Loads (plf)
Vert: 1=-35-to-9=-20, 10=-20-to-3=35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-36, 10=-36-to-3=51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
- Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-36, 10=-36-to-3=51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-36, 10=-36-to-3=51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
- Trapezoidal Loads (plf)
Vert: 1=-51-to-9=-36, 10=-36-to-3=51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-38, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-38, 10=-38-to-3=53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-38, 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
- Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-38, 10=-38-to-3=53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 9-10=-38, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-9=-38, 10=-38-to-3=53

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	A25	Flat	2	1	ISO440404
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:22 2022 Page 4
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LOAD CASE(S)

- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 9-10=-38, 4-6=-20
- Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-9=-38, 10=-38-to-3=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 9-10=-60, 4-6=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-9=-60, 10=-60-to-3=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 9-10=-28, 4-6=-12
- Horz: 1-6=-16, 1-7=33, 3-4=-16, 3-8=33
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-9=-28, 10=-28-to-3=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 9-10=4, 4-6=-12
- Horz: 1-6=16, 1-7=33, 3-4=16, 3-8=33
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-9=4, 10=4-to-3=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 9-10=-60, 4-6=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-9=-60, 10=-60-to-3=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 9-10=-60, 4-6=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-9=-60, 10=-60-to-3=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 9-10=-50, 4-6=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-9=-50, 10=-50-to-3=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 9-10=-50, 4-6=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-9=-50, 10=-50-to-3=-65

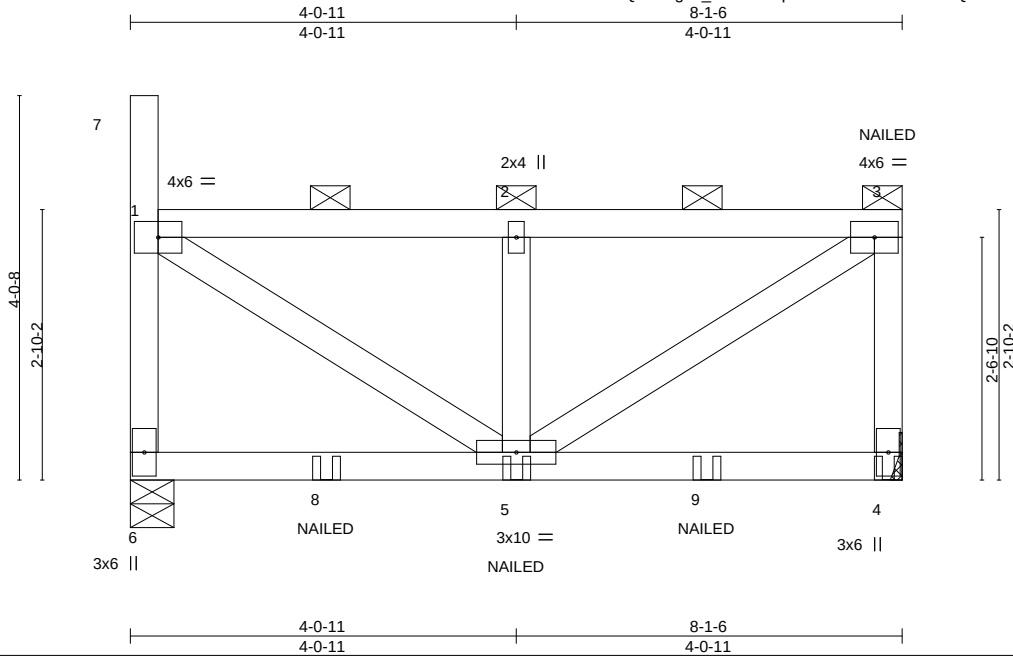


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440405
J220197-G02F	B01	FLAT GIRDER	5	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:36:47 2022 Page 1
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Scale: 1/2"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.32	Vert(LL)	0.03	5-6	>999	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.24	Vert(CT)	0.03	5-6	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 37 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (lb/size) 6=412/0-5-8, 4=459/Mechanical
Max Horz 6=-144(LC 10)
Max Uplift 6=-325(LC 10), 4=-352(LC 11)
Max Grav 6=421(LC 29), 4=470(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-371/404, 1-2=-398/377, 2-3=-398/377, 3-4=-420/434
BOT CHORD 6-8=-244/306, 5-8=-244/306
WEBS 1-5=-451/450, 2-5=-281/401, 3-5=-469/475

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 325 lb uplift at joint 6 and 352 lb uplift at joint 4.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-6=-20



February 25,2022

Continued on page 2

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

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440405
J220197-G02F	B01	FLAT GIRDER	5	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:36:47 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-X3A9b?LJvWH5dnHQ4Yw5qlaH63ozSVVHIDDLkxzhjNE

- LOAD CASE(S)** Standard
- Concentrated Loads (lb)
Vert: 5=-56(F) 3=-66(F) 8=-56(F) 9=-56(F)
- Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-48, 4-6=-20
- Concentrated Loads (lb)
Vert: 5=-47(F) 3=-58(F) 8=-47(F) 9=-47(F)
- Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-48
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5
- Concentrated Loads (lb)
Vert: 5=124(F) 3=-93(F) 8=124(F) 9=124(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-37, 3-4=-18
- Concentrated Loads (lb)
Vert: 5=124(F) 3=-62(F) 8=124(F) 9=124(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3
- Concentrated Loads (lb)
Vert: 5=124(F) 3=-70(F) 8=124(F) 9=124(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14
- Concentrated Loads (lb)
Vert: 5=124(F) 3=-62(F) 8=124(F) 9=124(F)
- Trapezoidal Loads (plf)
Vert: 1=-47-to-2=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20
- Concentrated Loads (lb)
Vert: 5=-56(F) 3=-68(F) 8=-56(F) 9=-56(F)
- Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60

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

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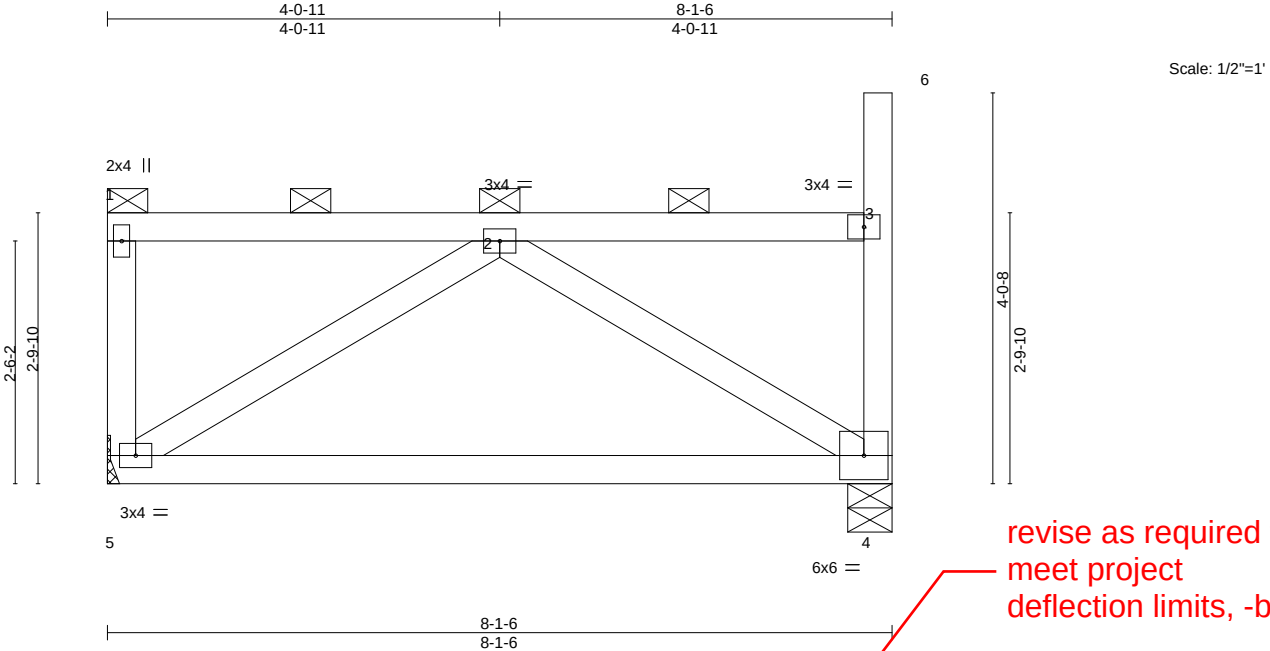


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B02	Flat	5	1	IS0440406
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:23 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-L9db8kEXzmuDeegQIsT7aEBIghKSMo2dCOWRQIzhuEI



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.30	Vert(LL)	-0.22	4-5	>41.8	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.77	Vert(CT)	-0.45	4-5	>20.9		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Horz(CT)	-0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP					Weight: 35 lb	FT = 20%
BCDL 10.0	Code IBC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, 3-6, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 8-2-2 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS.	(size) 5=Mechanical, 4=0-5-8
Max Horz	5=-145(LC 10)
Max Uplift	5=-58(LC 10), 4=-58(LC 11)
Max Grav	5=318(LC 29), 4=337(LC 29)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD	4-5=-451/232
WEBS	2-5=-275/501, 2-4=-252/506

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-58, 4-5=-20
Trapezoidal Loads (plf)
Vert: 2=-57-to-3=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-48, 4-5=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B02	Flat	5	1	I50440406
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

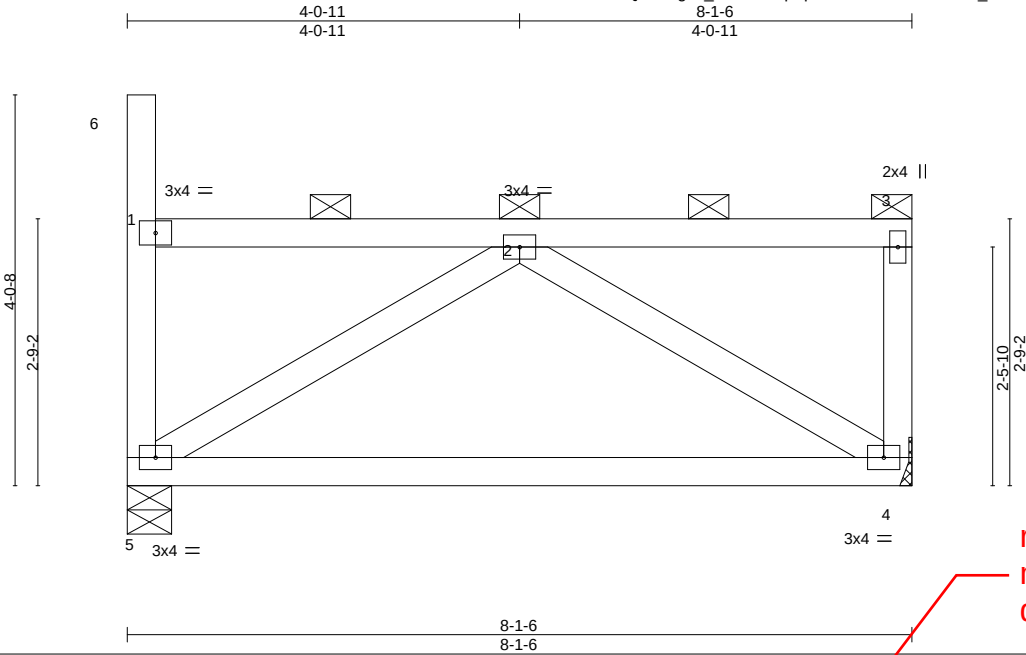
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:24 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 2=-48-to-3=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-2=-36, 4-5=-20
- Horz: 1-5=18, 3-4=5, 3-6=37
- Trapezoidal Loads (plf)
- Vert: 2=-36-to-3=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-2=-36, 4-5=-20
- Horz: 1-5=-5, 3-4=-18, 3-6=-37
- Trapezoidal Loads (plf)
- Vert: 2=-36-to-3=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-2=-36, 4-5=-20
- Horz: 1-5=14, 3-4=3, 3-6=25
- Trapezoidal Loads (plf)
- Vert: 2=-36-to-3=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-2=-36, 4-5=-20
- Horz: 1-5=-3, 3-4=-14, 3-6=25
- Trapezoidal Loads (plf)
- Vert: 2=-36-to-3=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-60, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 2=-60-to-3=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B03	Flat	5	1	IS0440407

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:24 2022 Page 1
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Scale: 1/2"=1'

revise as required to meet project deflection limits, -bdc

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.28	Vert(LL) -0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.78	Vert(CT) -0.45	4-5	>205	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Horz(CT) -0.00	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 35 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 8-2-4 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 5=0-5-8, 4=Mechanical
Max Horz 5=-146(LC 10)
Max Uplift 5=-34(LC 10), 4=-53(LC 11)
Max Grav 5=337(LC 2), 4=318(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-449/236
WEBS 2-5=-255/506, 2-4=-279/495

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



February 25,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B03	Flat	5	1	IS0440407
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:24 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-pMBzL4F9k404GoFcrZ_M7RkTchgVfHmR2F?yKzhuEH

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-50, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-48, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-63-to-2=-48
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 2-3=-20, 4-5=-40
- Trapezoidal Loads (plf)
Vert: 1=-35-to-2=-20
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=87, 4-5=-12
Horz: 1-5=25, 1-6=125, 3-4=40
- Trapezoidal Loads (plf)
Vert: 1=72-to-2=87
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=87, 4-5=-12
Horz: 1-5=-40, 1-6=-66, 3-4=-25
- Trapezoidal Loads (plf)
Vert: 1=72-to-2=87
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-35, 4-5=-20
Horz: 1-5=-28, 1-6=43, 3-4=-37
- Trapezoidal Loads (plf)
Vert: 1=-50-to-2=-34
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-35, 4-5=-20
Horz: 1-5=37, 1-6=-66, 3-4=28
- Trapezoidal Loads (plf)
Vert: 1=-50-to-2=-34
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=12, 1-6=50, 3-4=18
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=-18, 1-6=-50, 3-4=-12
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=24, 1-6=50, 3-4=6
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=-6, 1-6=-50, 3-4=-24
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=7, 1-6=-33, 3-4=15
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440407
J220197-G02R	B03	Flat	5	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:24 2022 Page 3
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LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=-15, 1-6=-33, 3-4=-7
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=7, 1-6=-33, 3-4=15
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=-15, 1-6=-33, 3-4=-7
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=19, 1-6=-33, 3-4=4
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=-4, 1-6=-33, 3-4=-19
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 2-3=-20, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-35-to-2=-20
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=18, 1-6=37, 3-4=5
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-5, 1-6=-37, 3-4=-18
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=14, 1-6=-25, 3-4=3
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-3, 1-6=-25, 3-4=-14
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=18, 1-6=37, 3-4=5
- Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=-5, 1-6=-37, 3-4=-18
- Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=14, 1-6=-25, 3-4=3
- Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B03	Flat	5	1	ISO440407
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:24 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-pMBzL4F9k404GoFcrZ_M7RkTchgVfHmR2F?ykHzuEH

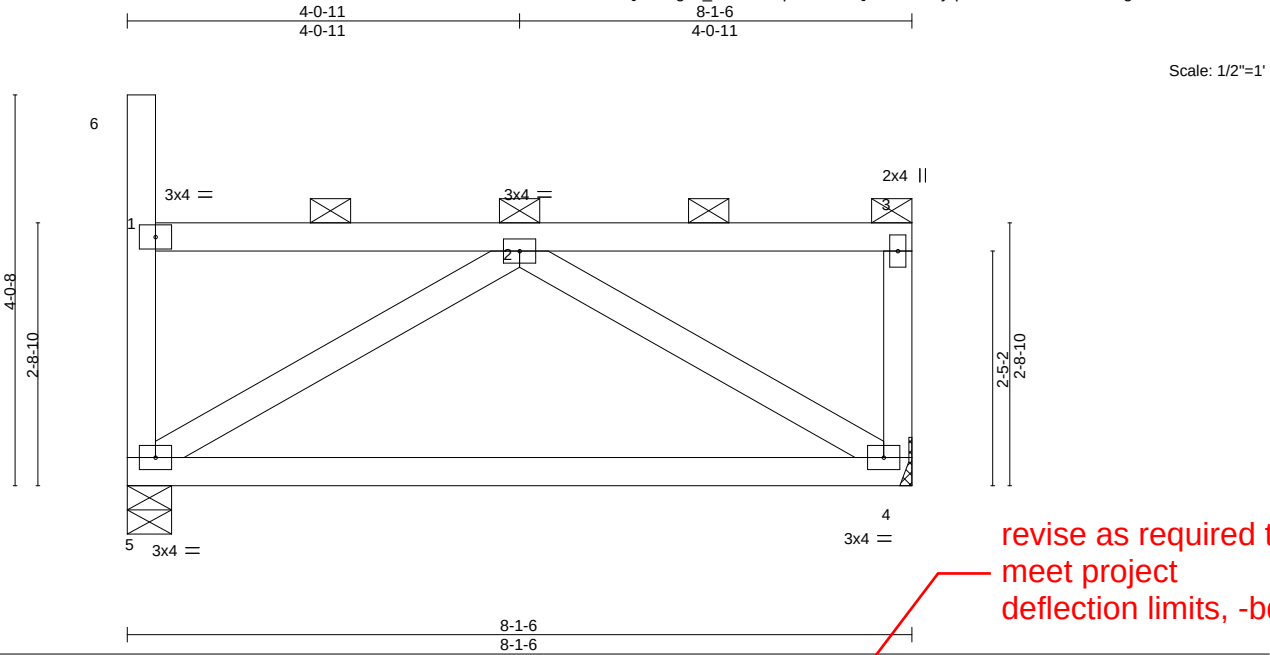
LOAD CASE(S) Standard

- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-3=-38, 4-5=-20
- Horz: 1-5=-3, 1-6=-25, 3-4=-14
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-2=-37
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-3=-60, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-2=-60
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-3=-28, 4-5=-12
- Horz: 1-5=-16, 1-6=33, 3-4=-16
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-2=-28
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-3=4, 4-5=-12
- Horz: 1-5=16, 1-6=33, 3-4=16
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-2=5
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-3=-60, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-2=-60
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-3=-60, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-2=-60
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-3=-50, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-2=-50
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-3=-50, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-2=-50

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B04	Flat	5	1	IS0440408
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:25 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-HYIMYQGnVO8xuyqoPHVbffGeL50uEiWwgi?YUBzhuEG



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.29	Vert(LL) -0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.78	Vert(CT) -0.45	4-5	>209	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Horz(CT) -0.00	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 35 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 8-1-8 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 5=0-5-8, 4=Mechanical
Max Horz 5=-147(LC 10)
Max Uplift 5=-34(LC 10), 4=-53(LC 11)
Max Grav 5=337(LC 2), 4=318(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-456/240
WEBS 2-5=-258/512, 2-4=-282/501

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-58, 4-5=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-2=-57
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



February 25,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B04	Flat	5	1	IS0440408
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:25 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-HYIMYQGnVO8xuyqoPHVbffGeL50uEiWwgi?YUBzhuEG

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 2-3=-60, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-2=-60
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-50, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-2=-50
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 2-3=-48, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-63-to-2=-48
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 2-3=-20, 4-5=-40
- Trapezoidal Loads (plf)
Vert: 1=-35-to-2=-20
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=87, 4-5=-12
Horz: 1-5=25, 1-6=125, 3-4=40
- Trapezoidal Loads (plf)
Vert: 1=72-to-2=87
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=87, 4-5=-12
Horz: 1-5=-40, 1-6=-66, 3-4=-25
- Trapezoidal Loads (plf)
Vert: 1=72-to-2=87
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-35, 4-5=-20
Horz: 1-5=-28, 1-6=43, 3-4=-37
- Trapezoidal Loads (plf)
Vert: 1=-50-to-2=-34
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-35, 4-5=-20
Horz: 1-5=37, 1-6=-66, 3-4=28
- Trapezoidal Loads (plf)
Vert: 1=-50-to-2=-34
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=12, 1-6=50, 3-4=18
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=-18, 1-6=-50, 3-4=-12
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=24, 1-6=50, 3-4=6
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=-6, 1-6=-50, 3-4=-24
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=7, 1-6=-33, 3-4=15
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B04	Flat	5	1	I50440408
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:25 2022 Page 3
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-HYIMYQGnVO8xuyqoPHVbffGeL50uEiWwgi?YUBzhuEG

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=-15, 1-6=-33, 3-4=-7
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=7, 1-6=-33, 3-4=15
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=16, 4-5=-12
Horz: 1-5=-15, 1-6=-33, 3-4=-7
- Trapezoidal Loads (plf)
Vert: 1=1-to-2=17
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=19, 1-6=-33, 3-4=4
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-3, 4-5=-20
Horz: 1-5=-4, 1-6=-33, 3-4=-19
- Trapezoidal Loads (plf)
Vert: 1=-18-to-2=-3
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 2-3=-20, 4-5=-20
- Trapezoidal Loads (plf)
Vert: 1=-35-to-2=-20
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=18, 1-6=37, 3-4=5
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-5, 1-6=-37, 3-4=-18
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=14, 1-6=-25, 3-4=3
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-36, 4-5=-20
Horz: 1-5=-3, 1-6=-25, 3-4=-14
- Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-36
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=18, 1-6=37, 3-4=5
- Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=-5, 1-6=-37, 3-4=-18
- Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-3=-38, 4-5=-20
Horz: 1-5=14, 1-6=-25, 3-4=3
- Trapezoidal Loads (plf)
Vert: 1=-53-to-2=-37

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440408
J220197-G02R	B04	Flat	5	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:25 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-HYIMYQGnVO8xuyqoPHVbffGeL50uEiWwgi?YUBzhuEG

LOAD CASE(S) Standard

- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-3=-38, 4-5=-20
- Horz: 1-5=-3, 1-6=-25, 3-4=-14
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-2=-37
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-3=-60, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-2=-60
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-3=-28, 4-5=-12
- Horz: 1-5=-16, 1-6=33, 3-4=-16
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-2=-28
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-3=4, 4-5=-12
- Horz: 1-5=16, 1-6=33, 3-4=16
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-2=5
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-3=-60, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-2=-60
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-3=-60, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-2=-60
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-3=-50, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-2=-50
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-3=-50, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-2=-50



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B05	FLAT GIRDER	5	3	IS0440409

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:39:02 2022 Page 2
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- NOTES-**
- 12) Load case(s) 1, 2, 3, 4, 5, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 8-2-14 from the left end to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.

- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-58, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1074(F)
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 16=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-50, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-968(F)
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 16=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-48, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-944(F)
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 16=-48-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 15-16=-20, 7-12=-40
Concentrated Loads (lb)
Vert: 17=-829(F)
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 16=-20-to-6=-35
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Concentrated Loads (lb)
Vert: 17=61(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Concentrated Loads (lb)
Vert: 17=437(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Concentrated Loads (lb)
Vert: 17=-1321(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 16=-3-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Concentrated Loads (lb)
Vert: 17=-634(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 16=-3-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B05	FLAT GIRDER	5	3	IS0440409

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-41qBx9z_6?IxBW6MUOrloDgP0UpBaXF8KjQ_zczhJL7

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
- Concentrated Loads (lb)
Vert: 17=208(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
- Concentrated Loads (lb)
Vert: 17=208(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
- Concentrated Loads (lb)
Vert: 17=208(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
- Concentrated Loads (lb)
Vert: 17=208(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
- Concentrated Loads (lb)
Vert: 17=-1092(F)
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 16=-3-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
- Concentrated Loads (lb)
Vert: 17=-1092(F)
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 16=-3-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 15-16=-20, 7-12=-20
- Concentrated Loads (lb)
Vert: 17=-553(F)
- Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 16=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Concentrated Loads (lb)
Vert: 17=-1520(F)
- Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Concentrated Loads (lb)
Vert: 17=-1005(F)
- Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Concentrated Loads (lb)
Vert: 17=-1349(F)

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B05	FLAT GIRDER	5	3	I50440409

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-41qBx9z_6?IxJW6MUOrloDgP0UpBaXF8KjQ_zczhJL7

LOAD CASE(S) Standard

- Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1349(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1544(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Concentrated Loads (lb)
Vert: 17=-1029(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1372(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1372(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-50, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-968(F)
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 16=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-50, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-968(F)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	B05	FLAT GIRDER	5	3	I50440409

Mill Creek Truss, LLC, Halstead, KS - 67056,

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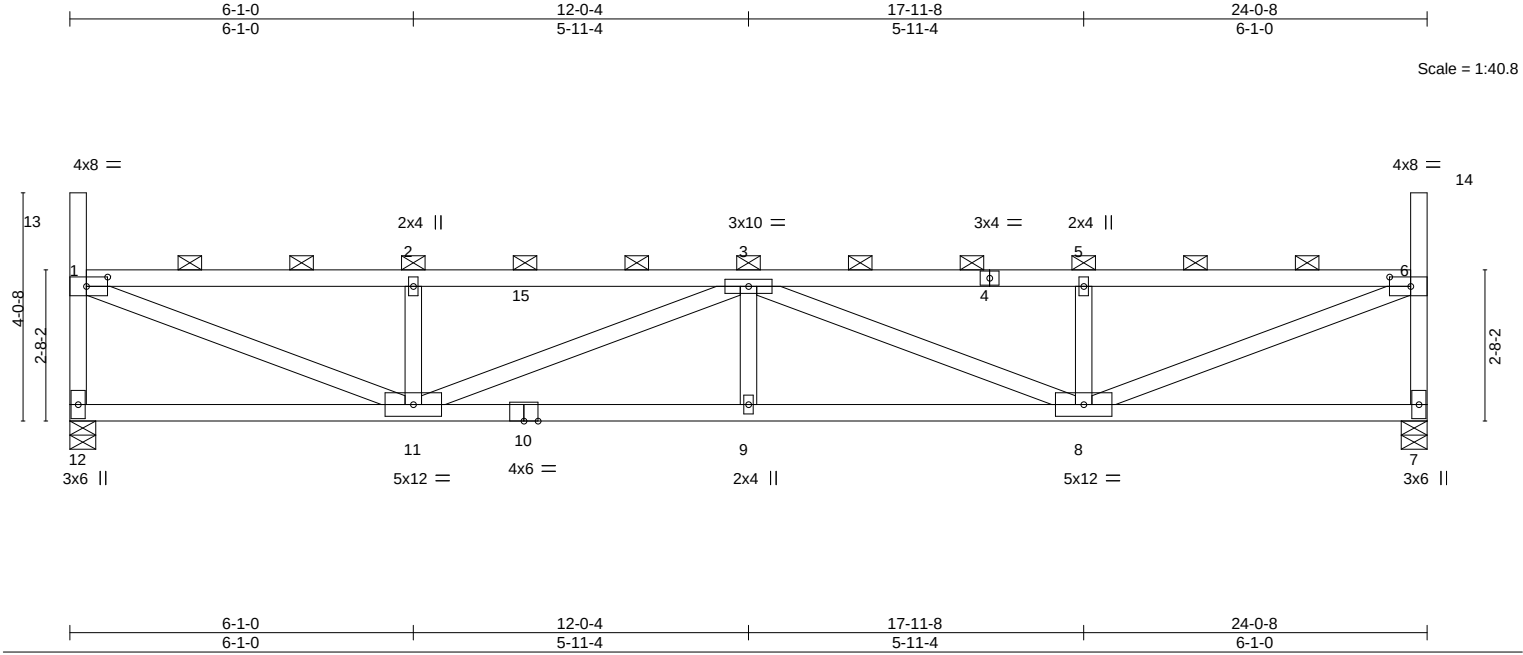
LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 16=-50-to-6=-65

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440410
J220197-G02R	B06	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:7aJbUL?xQxY50gva_Jb6JFzkpl-i7RUBSifoJXWlQZN4P2IHu5HI3CRvcMMgDC5WzhuED



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.17	9	>999	240	MT20	197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.30	9-11	>965	180			
TCDL	10.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.05	7	n/a	n/a			
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%	
BCDL	10.0												

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-7-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 5-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-198(LC 10)
Max Uplift 12=-14(LC 10), 7=-14(LC 11)
Max Grav 12=1009(LC 2), 7=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/501, 1-2=-1938/971, 2-3=-1938/971, 3-5=-1938/970, 5-6=-1938/970, 6-7=-949/501
BOT CHORD 11-12=-346/329, 9-11=-1371/2503, 8-9=-1371/2503
WEBS 1-11=-1036/2018, 2-11=-406/315, 3-11=-610/431, 3-8=-610/427, 5-8=-406/313, 6-8=-1039/2018

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B06	Flat	2	1	IS0440410
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:28 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-i7RUBSifoJXWlQZN4P2lHHu5HI3CRvcMMgDC5WzhuED

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
- Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=87, 6-7=34, 6-14=55
- Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-87
- Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B06	Flat	2	1	IS0440410
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:28 2022 Page 3
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-i7RUBSifoJXWlQZN4P2IHu5HI3CRvcMMgDC5WzhuED

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

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

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B06	Flat	2	1	IS0440410
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:28 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-i7RUBSifoJXWlQZN4P2IHu5HI3CRvcMMgDC5WzhuED

LOAD CASE(S) Standard

- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

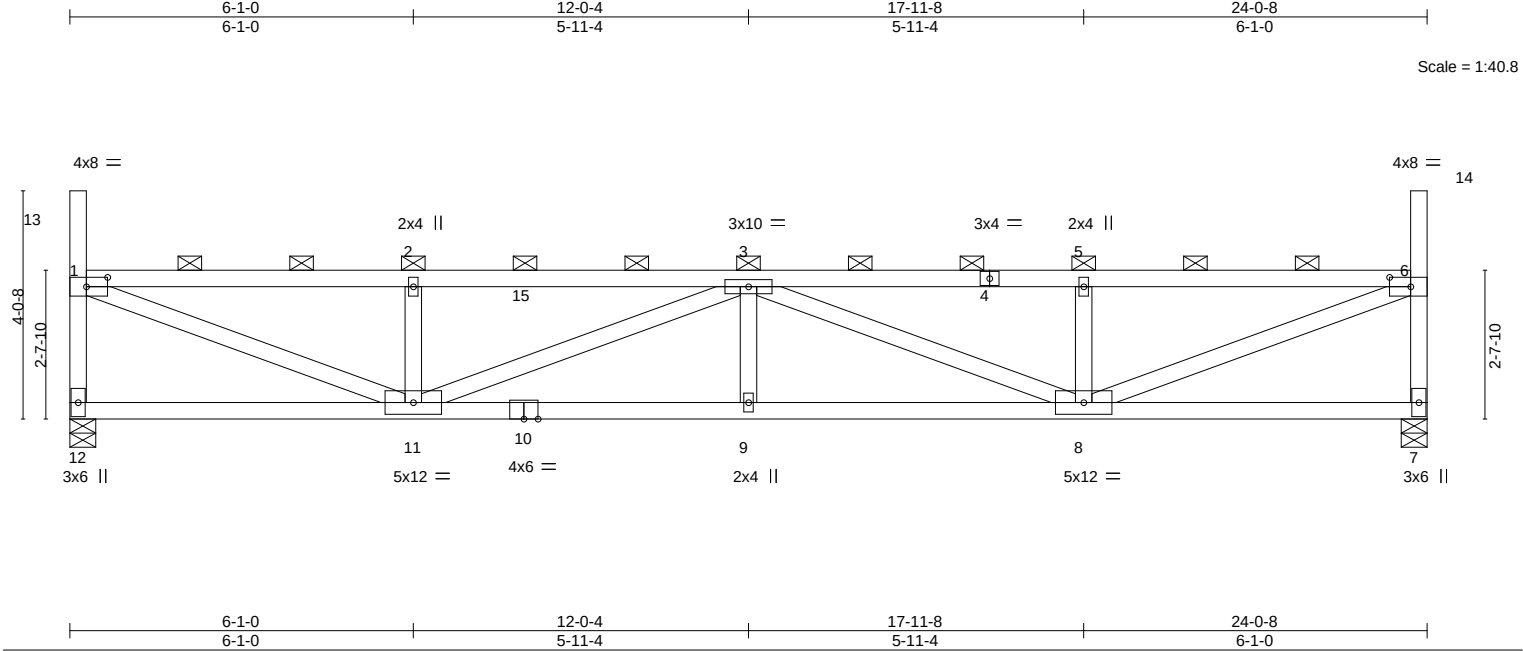


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440411
J220197-G02R	B07	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:29 2022 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.17	9	>999	L/d	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.30	9-11	>935		180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.05	7	n/a		n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								Weight: 97 lb	FT = 20%
BCDL	10.0												

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-7-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-10-3 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=200(LC 11)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/559, 1-2=-1971/1060, 2-3=-1971/1060, 3-5=-1971/1058, 5-6=-1971/1058, 6-7=-949/560
BOT CHORD 11-12=-361/327, 9-11=-1456/2547, 8-9=-1456/2547
WEBS 1-11=-1120/2047, 2-11=-406/344, 3-11=-629/429, 3-8=-629/425, 5-8=-406/343, 6-8=-1123/2047

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B07	Flat	2	1	IS0440411
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:29 2022 Page 2
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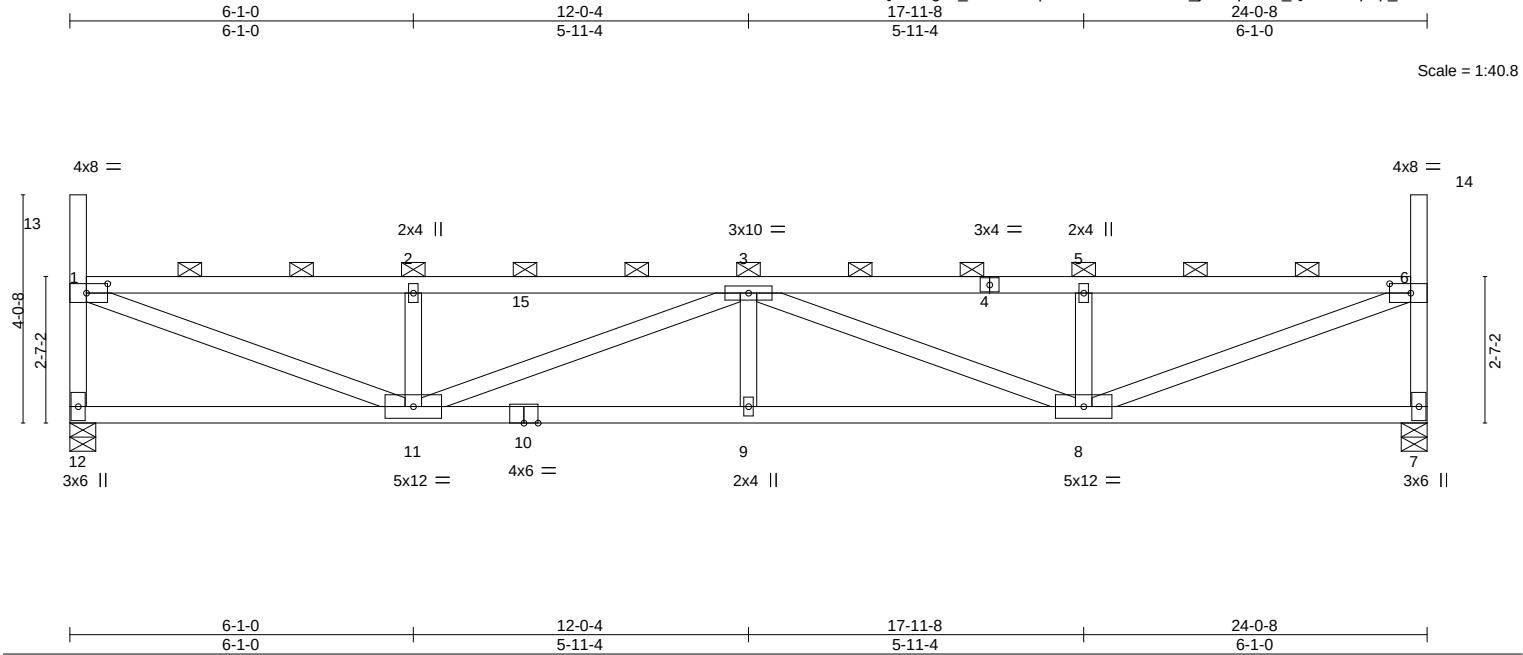
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440412
J220197-G02R	B08	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:30 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-eWYFc7KwKwnE_jimCq5mMi_QW6kGvprfp_iJ9OzhuEB



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.18	9	>999	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.31	9-11	>905		
TCDL	10.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.05	7	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS						Weight: 97 lb	FT = 20%
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-6-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-11-1 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-202(LC 10)
Max Uplift 12=-14(LC 10), 7=-14(LC 11)
Max Grav 12=1009(LC 2), 7=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-949/501, 1-2=-2006/1006, 2-3=-2006/1006, 3-5=-2006/1005, 5-6=-2006/1005, 6-7=-949/502
BOT CHORD 11-12=-360/341, 9-11=-1417/2593, 8-9=-1417/2593
WEBS 1-11=-1068/2078, 2-11=-405/315, 3-11=-629/447, 3-8=-629/442, 5-8=-405/313, 6-8=-1071/2078

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B08	Flat	2	1	I50440412
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:30 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
- Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=87, 6-7=34, 6-14=55
- Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-87
- Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B08	Flat	2	1	IS0440412
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:30 2022 Page 3
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-eWYFc7KwKwnE_jimCq5mMi_QW6kGvprfp_ij9OzhuEB

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B08	Flat	2	1	IS0440412
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-eWYFc7KwKwnE_jimCq5mMi_QW6kGvprfp_ij9OzhuEB

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-38, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-28, 7-12=-12
- Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-15=-28, 4=-29-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=4, 7-12=-12
- Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-15=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

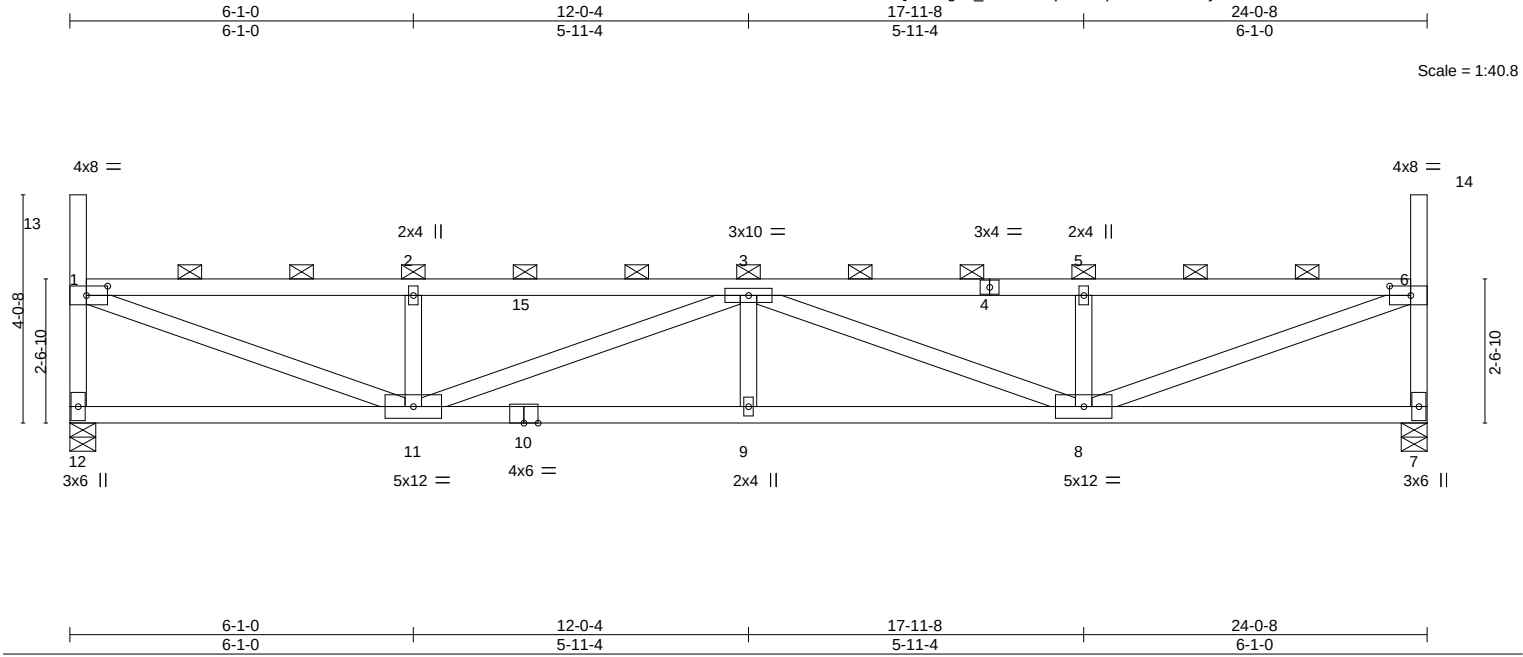


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440413
J220197-G02R	B09	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-6i6dpTLy4Ev5ctHymXc?wwWb8W3leFCo2eSsizrhuEA



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.19 9 >999	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.33 9-11 >876				
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.05 7 n/a				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							
BCDL	10.0										
								Weight: 97 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-6-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-9-2 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-204(LC 12)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/560, 1-2=-2042/1098, 2-3=-2042/1098, 3-5=-2042/1097, 5-6=-2042/1097, 6-7=-948/561
BOT CHORD 11-12=-375/340, 9-11=-1506/2640, 8-9=-1506/2640
WEBS 1-11=-1156/2110, 2-11=-405/344, 3-11=-650/445, 3-8=-650/440, 5-8=-405/343, 6-8=-1159/2110

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B09	Flat	2	1	IS0440413
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:32 2022 Page 2
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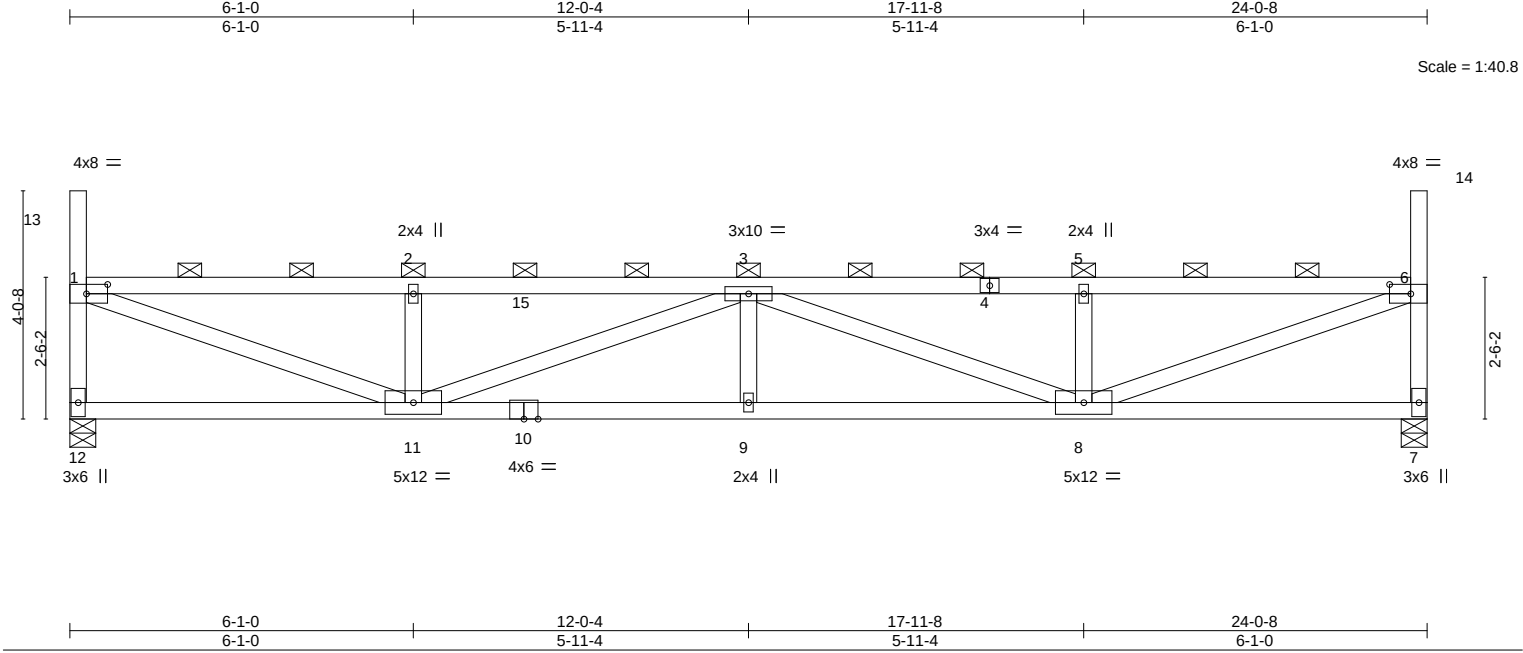
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440414
J220197-G02R	B10	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:33 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-25ENE9Mocr9prBRLtyeT_LcwVJIY69Y5WyxzmjzhuE8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.19 9 >999 240	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.34 9-11 >847 180				
TCDL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.05 7 n/a n/a				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							
BCDL	10.0										
								Weight: 97 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-5-15 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-8-10 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-206(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/560, 1-2=-2080/1118, 2-3=-2080/1118, 3-5=-2080/1117, 5-6=-2080/1117, 6-7=-948/561
BOT CHORD 11-12=-382/346, 9-11=-1532/2689, 8-9=-1532/2689
WEBS 1-11=-1175/2143, 2-11=-405/344, 3-11=-661/454, 3-8=-661/448, 5-8=-405/343, 6-8=-1178/2143

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B10	Flat	2	1	ISO440414
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:33 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-25ENE9Mocr9prBRLtyeT_LcwVJIY69Y5WyxzmjzhuE8

LOAD CASE(S) Standard

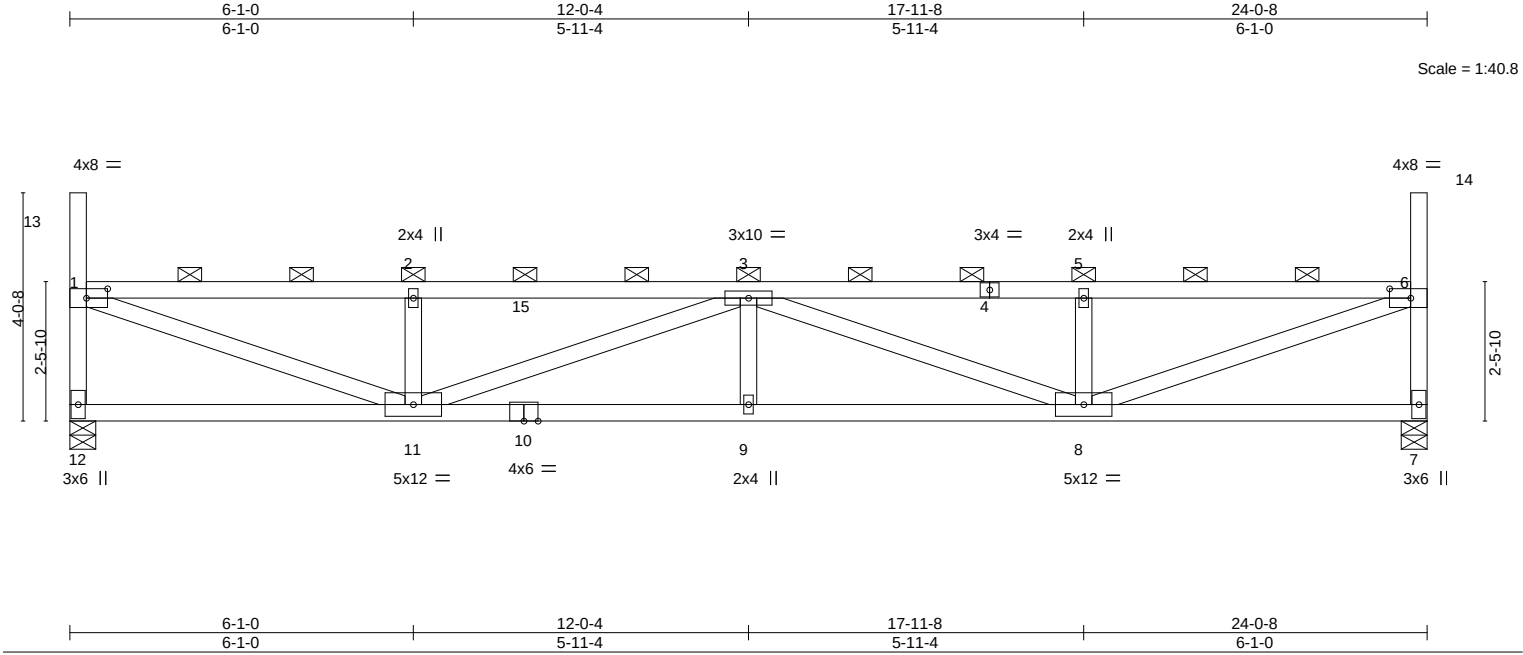
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440415
J220197-G02R	B11	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:34 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-WHoIRVNQN9HgTL0XRg9iXY856j5YrceEkgXI9zhuE7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.20 9 >999	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.35 9-11 >818				
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05 7 n/a				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							
BCDL	10.0										
								Weight: 96 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-5-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-8-2 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-209(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-948/561, 1-2=-2119/1139, 2-3=-2119/1139, 3-5=-2119/1138, 5-6=-2119/1138, 6-7=-948/561
BOT CHORD 11-12=-390/352, 9-11=-1559/2740, 8-9=-1559/2740
WEBS 1-11=-1194/2177, 2-11=-404/344, 3-11=-672/463, 3-8=-672/457, 5-8=-404/343, 6-8=-1198/2177

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B11	Flat	2	1	IS0440415
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:34 2022 Page 2
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LOAD CASE(S) Standard

- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



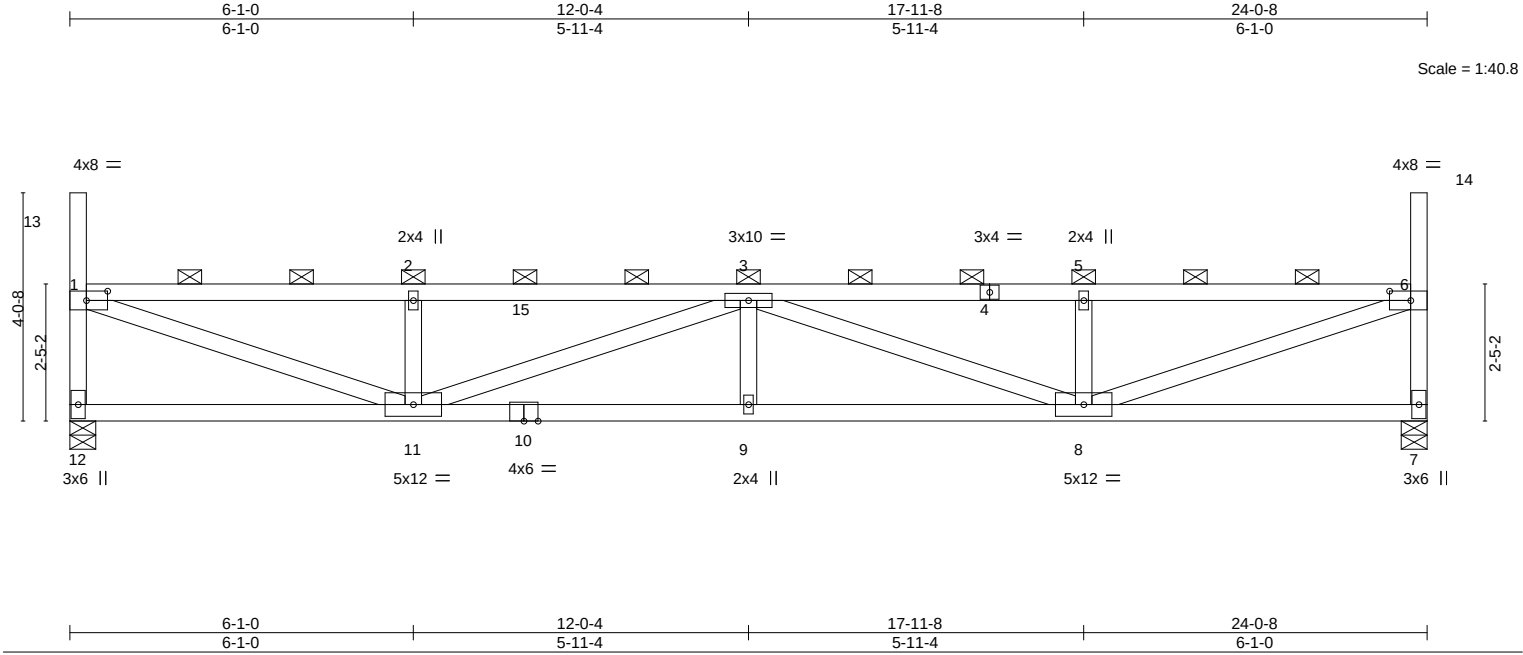
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440416
J220197-G02R	B12	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:35 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-?TM8frO38SPW4Vbj?Ngx3mhGi7RYa3jOzFQ4rczhuE6



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.21	9	>999	240	MT20	197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.36	9-11	>790	180			
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	7	n/a	n/a			
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS									
BCDL	10.0										Weight: 96 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-4-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-7-9 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-211(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/561, 1-2=-2159/1161, 2-3=-2159/1161, 3-5=-2159/1159, 5-6=-2159/1159, 6-7=-947/562
BOT CHORD 11-12=-397/359, 9-11=-1587/2793, 8-9=-1587/2793
WEBS 1-11=-1215/2213, 2-11=-404/344, 3-11=-684/472, 3-8=-684/466, 5-8=-404/343, 6-8=-1218/2212

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B12	Flat	2	1	IS0440416
					Job Reference (optional)

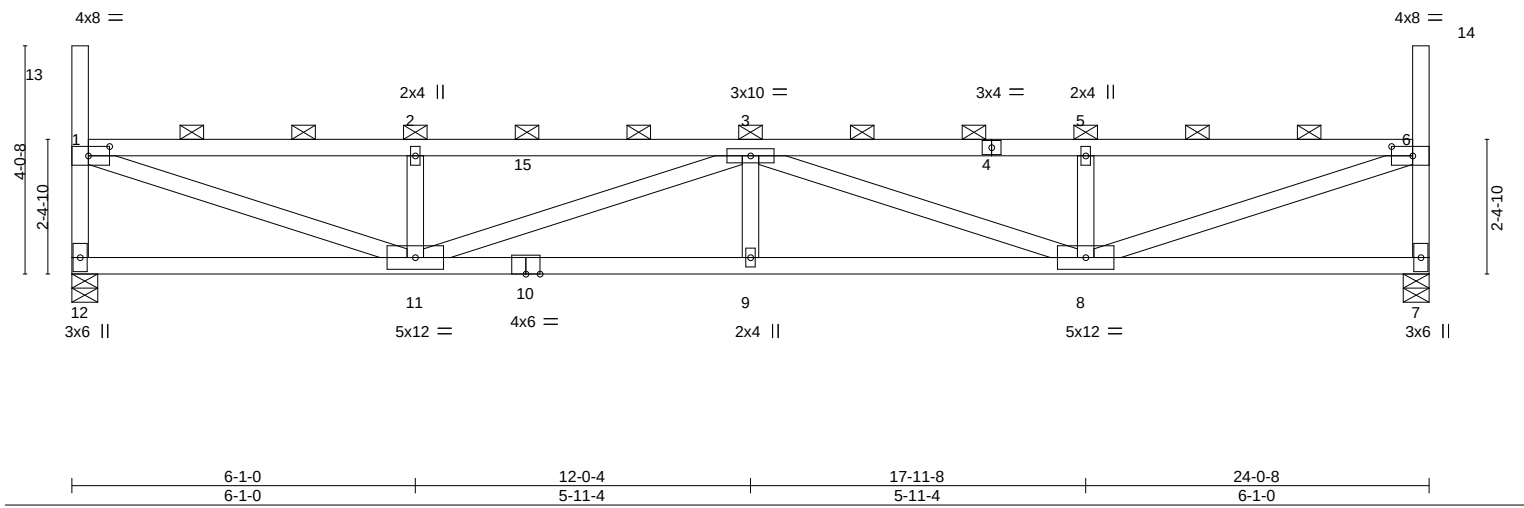
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:35 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440417
J220197-G02R	B13	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:36 2022 Page 1
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 6-1-0 5-11-4 5-11-4 6-1-0
 Scale = 1:40.8

[illegible]

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-4-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-8-6 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-213(LC 10)
 Max Uplift 12=-15(LC 10), 7=-15(LC 11)
 Max Grav 12=1009(LC 2), 7=1009(LC 2)

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B13	Flat	2	1	I50440417
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:36 2022 Page 2
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LOAD CASE(S) Standard

- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=87, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

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

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440417
J220197-G02R	B13	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:36 2022 Page 3
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-TfwWsBPhvmXNieAwY5CAczERHXIXJVbXCv9dN2zhuE5

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B13	Flat	2	1	IS0440417
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:36 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-TfwWsBPhvmXNieAwY5CAczERHXIXJVbXCv9dN2zhuE5

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B14	Flat	2	1	IS0440418
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:37 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-xsTu4XPJg4fEKol66ojP8Bmcx5V2xshQZvBvUzhuE4

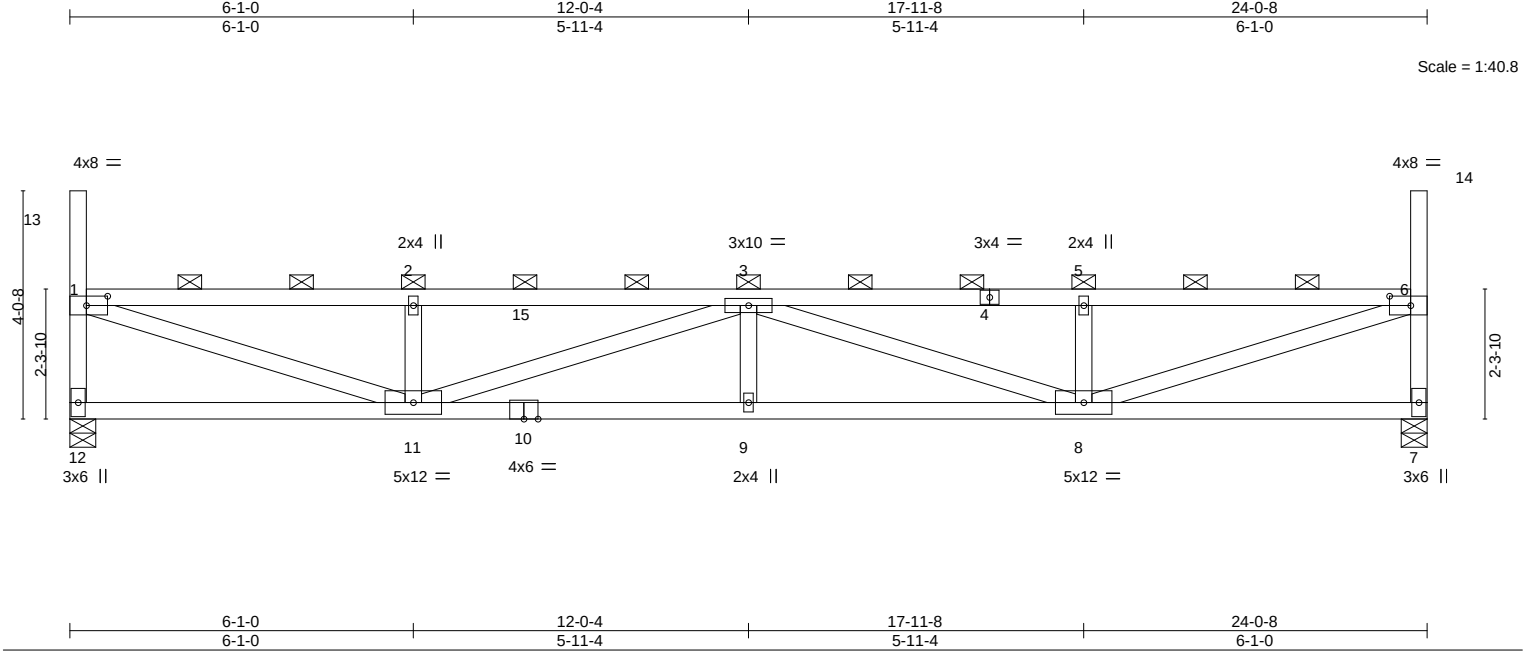
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440419
J220197-G02R	B15	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:39 2022 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.23	9	>999	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.40	9-11	>707		
TCDL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.06	7	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS						Weight: 96 lb	FT = 20%
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-3-4 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-7-5 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-217(LC 10)
Max Uplift 12=-15(LC 10), 7=-15(LC 11)
Max Grav 12=1009(LC 2), 7=1009(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-947/504, 1-2=-2290/1148, 2-3=-2290/1148, 3-5=-2290/1146, 5-6=-2290/1146, 6-7=-947/504
BOT CHORD 11-12=-412/389, 9-11=-1605/2964, 8-9=-1605/2964
WEBS 1-11=-1203/2328, 2-11=-402/315, 3-11=-712/512, 3-8=-712/505, 5-8=-402/313, 6-8=-1207/2328

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B15	Flat	2	1	I50440419
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:39 2022 Page 2
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LOAD CASE(S) Standard

- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=87, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B15	Flat	2	1	IS0440419
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:39 2022 Page 3
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LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B15	Flat	2	1	IS0440419
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:39 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-tEbeUCRZChvyZ6uUEDltEcsx9kniWs__utOI_NzhuE2

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-29-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

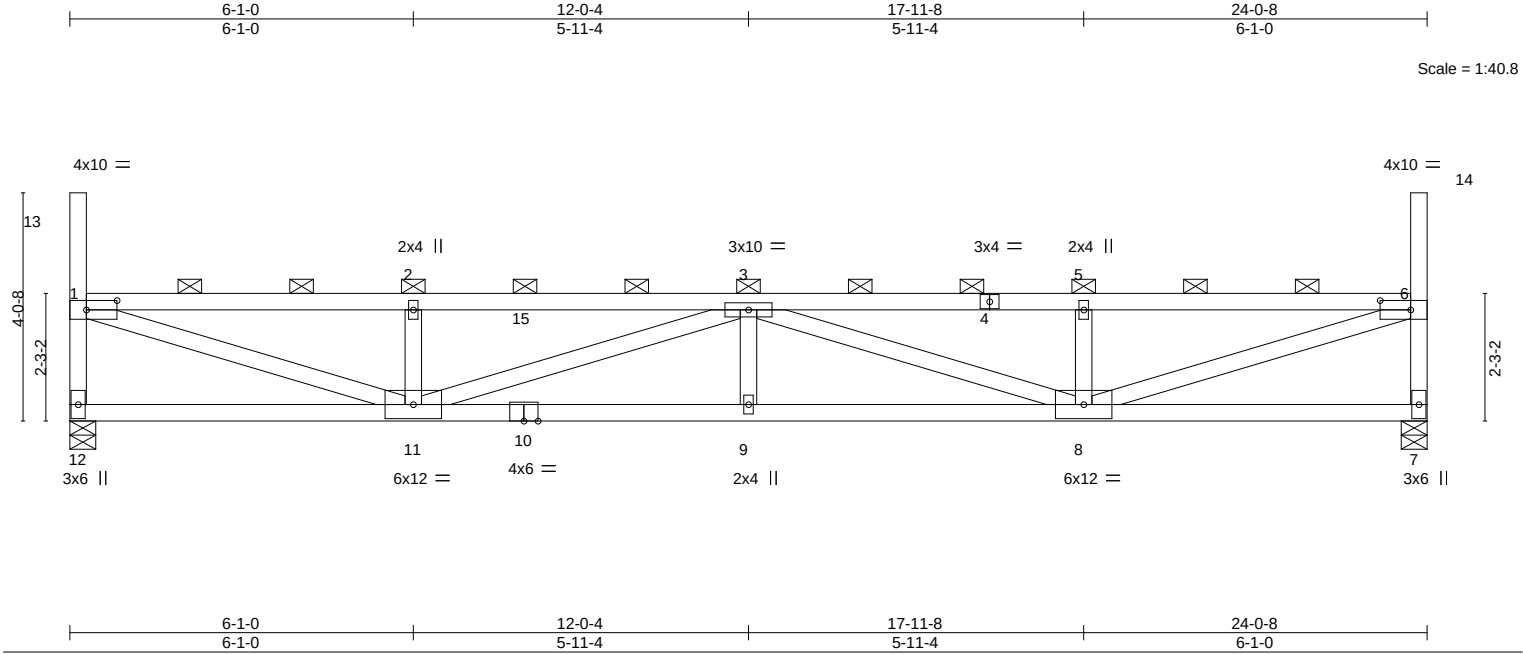


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440420
J220197-G02R	B16	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:40 2022 Page 1
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.66	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Lumber DOL 1.15	BC 0.89	Vert(LL) 0.24 9 >999 240		
TCDL 10.0	Rep Stress Incr NO	WB 0.88	Vert(CT) -0.42 9-11 >680 180		
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
BCDL 10.0				Weight: 95 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (3-2-10 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-5-7 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-220(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-946/562, 1-2=-2337/1256, 2-3=-2337/1256, 3-5=-2337/1255, 5-6=-2337/1255, 6-7=-946/563
BOT CHORD 11-12=-430/387, 9-11=-1710/3026, 8-9=-1710/3026
WEBS 1-11=-1304/2370, 2-11=-402/344, 3-11=-736/512, 3-8=-736/505, 5-8=-402/342, 6-8=-1309/2370

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B16	Flat	2	1	IS0440420
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

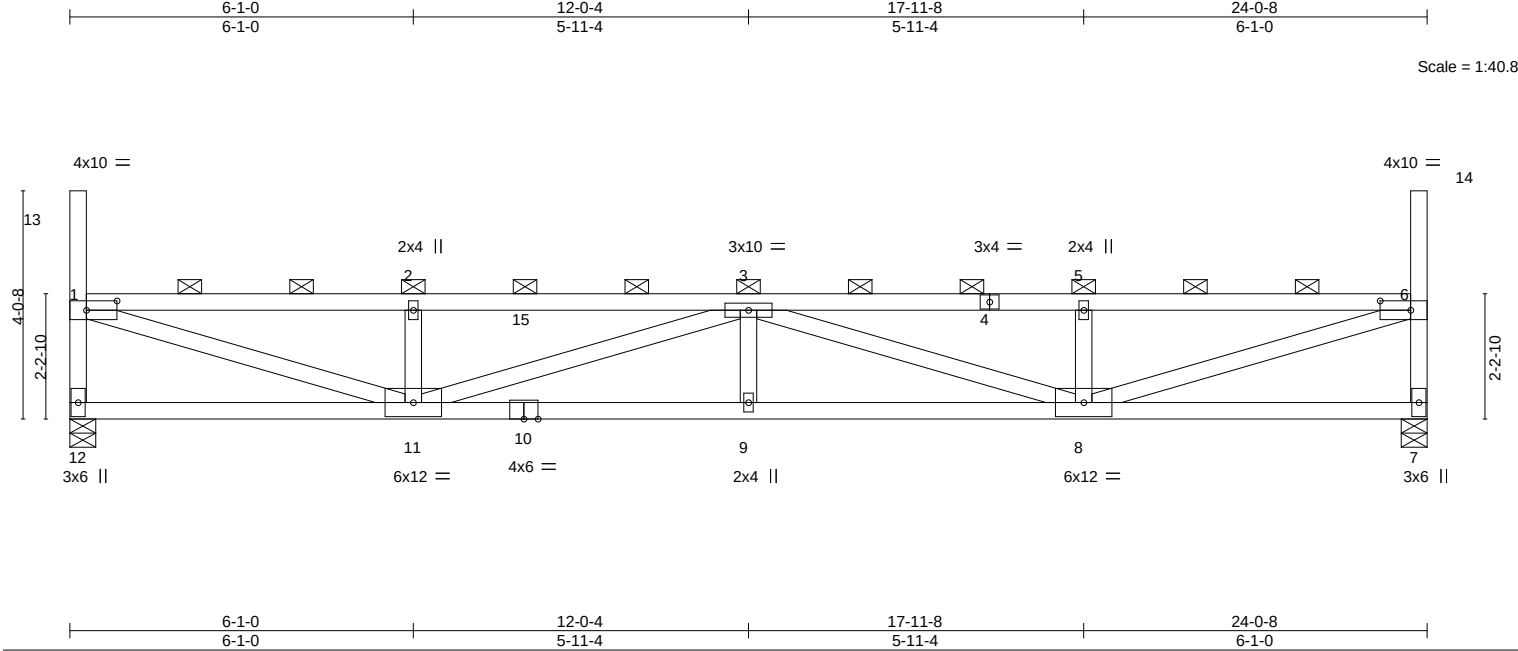
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:40 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440421
J220197-G02R	B17	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:41 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-pdJpVuSpkI9gpQ2tLenLJ1xHEYSb_IXGLBTO2FzhuE0



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	in	(loc)	I/defl	L/d	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.91	0.25	9	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Vert(LL)	-0.44	9-11	>654		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Vert(CT)	-0.06	7	n/a		
BCDL	10.0					Horz(CT)	0.06	7	n/a		
										Weight: 95 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-2-2 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-5-8 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-222(LC 10)
Max Uplift 12=-68(LC 10), 7=-22(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-946/556, 1-2=-2386/1263, 2-3=-2386/1263, 3-5=-2386/1215, 5-6=-2386/1215, 6-7=-946/511
BOT CHORD 11-12=-439/395, 9-11=-1706/3090, 8-9=-1706/3090
WEBS 1-11=-1308/2413, 2-11=-401/343, 3-11=-770/505, 3-8=-740/546, 5-8=-401/314, 6-8=-1275/2413

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B17	Flat	2	1	I50440421
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:41 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-4=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-4=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-4=-20, 7-12=-40
- Trapezoidal Loads (plf)
Vert: 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-4=54, 7-12=-12
Horz: 1-12=19, 1-13=87, 6-7=34, 6-14=55
- Trapezoidal Loads (plf)
Vert: 4=53-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-4=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-87
- Trapezoidal Loads (plf)
Vert: 4=53-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-4=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
- Trapezoidal Loads (plf)
Vert: 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-4=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
- Trapezoidal Loads (plf)
Vert: 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-4=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
- Trapezoidal Loads (plf)
Vert: 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-4=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-4=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
- Trapezoidal Loads (plf)
Vert: 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-4=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
- Trapezoidal Loads (plf)
Vert: 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 1-4=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
- Trapezoidal Loads (plf)
Vert: 4=16-to-6=1

Continued on page 3

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


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B17	Flat	2	1	IS0440421
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:41 2022 Page 3
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-pdJPvuSpkI9gpQ2tLenLJ1xHEYSb_IXGLBtO2FzhuE0

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B17	Flat	2	1	IS0440421
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:41 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-pdJPvuSpkI9gpQ2tLenLJ1xHEYSb_IXGLBtO2FzhuE0

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-4=-38, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-4=-28, 7-12=-12
- Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
- Trapezoidal Loads (plf)
- Vert: 4=-29-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 1-4=4, 7-12=-12
- Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
- Trapezoidal Loads (plf)
- Vert: 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-4=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-4=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-4=-50, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-4=-50, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 4=-50-to-6=-65

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B18	Flat	2	1	IS0440422
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:42 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-HpHn7ETSVcHXQZd3vLJarEUSlynWjBIQarcybizhuE?

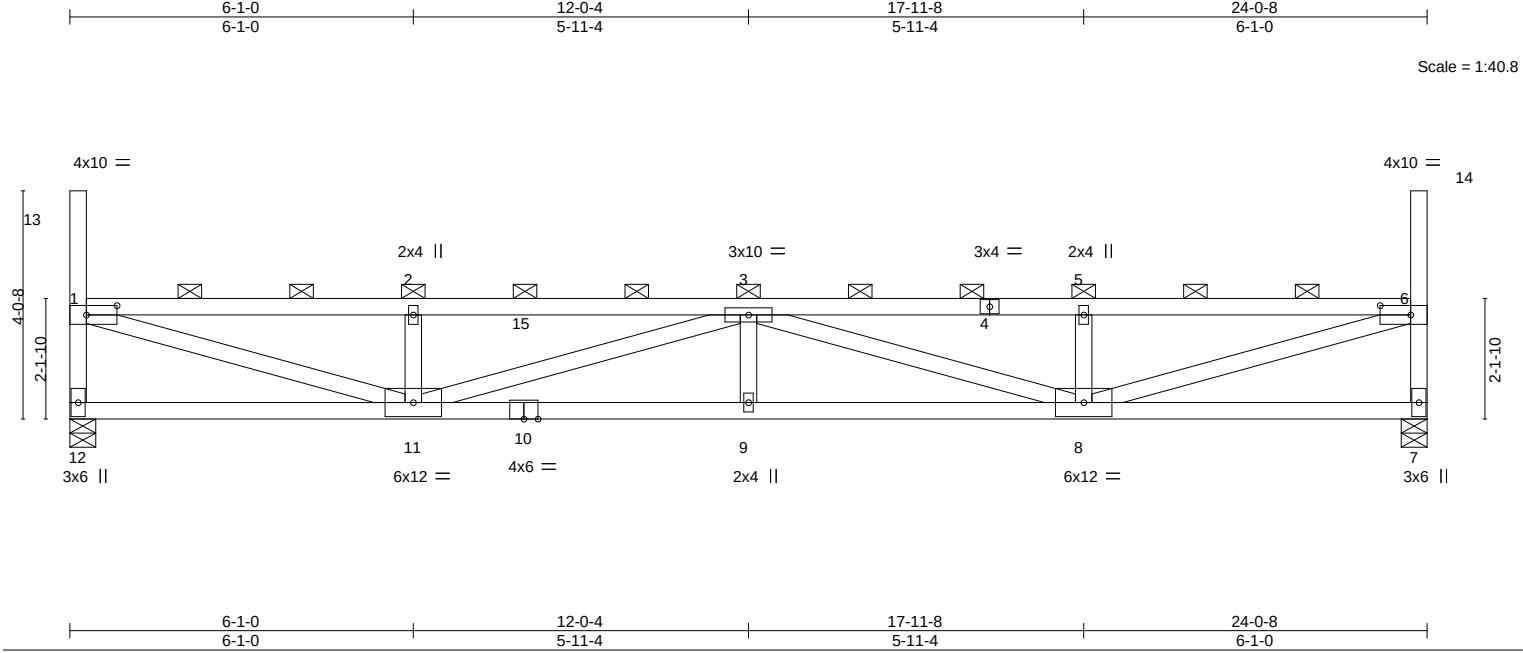
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440423
J220197-G02R	B19	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:43 2022 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.27	9	>999	L/d	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.47	9-11	>602		180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.06	7	n/a		n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								Weight: 95 lb	FT = 20%
BCDL	10.0												

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-0-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-3-13 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-226(LC 12)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-945/563, 1-2=-2490/1339, 2-3=-2490/1339, 3-5=-2490/1337, 5-6=-2490/1337, 6-7=-945/563
BOT CHORD 11-12=-457/410, 9-11=-1815/3227, 8-9=-1815/3227
WEBS 1-11=-1382/2506, 2-11=-400/344, 3-11=-783/547, 3-8=-783/539, 5-8=-400/342, 6-8=-1387/2506

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B19	Flat	2	1	I50440423
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:43 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-m0r9KaU4GwPO2jCGT3qpOS0cEL7RSeIzPVMV78zhuE_

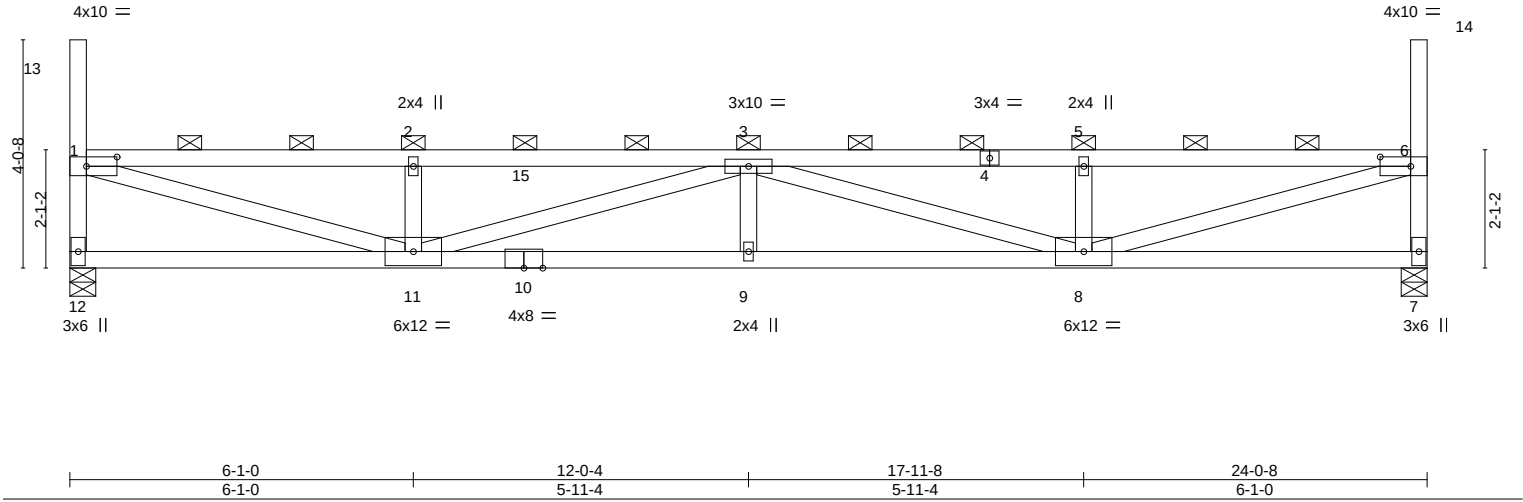
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440424
J220197-G02R	B20	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:44 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-ECOXYwV1DYFgtnS0mL2xfZnI552eazhuDz
17-11-8 24-0-8
6-1-0 12-0-4 5-11-4 6-1-0
Scale = 1:40.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.28	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.49				
TCDL	10.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.07				
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							
BCDL	10.0										
								Weight: 95 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-0-3 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-3-3 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS.	
(size)	12=0-5-8, 7=0-5-8
Max Horz	12=-228(LC 12)
Max Uplift	12=-75(LC 10), 7=-75(LC 11)
Max Grav	12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-12=-944/563, 1-2=-2546/1369, 2-3=-2546/1369, 3-5=-2546/1367, 5-6=-2546/1367, 6-7=-944/564
BOT CHORD	11-12=-467/418, 9-11=-1853/3300, 8-9=-1853/3300
WEBS	1-11=-1410/2556, 2-11=-400/343, 3-11=-800/560, 3-8=-800/551, 5-8=-400/341, 6-8=-1415/2556

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard	
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 4-15=-58, 7-12=-20	



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440424
J220197-G02R	B20	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:45 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-iOyvIGWKnXg6H1MeaUsHTt5yS9oZwYYsGprcA1zhuDy

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75



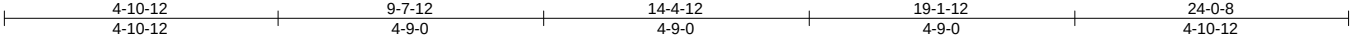
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0440425
J220197-G02F	B21	FLAT GIRDER	2	2	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:7aJbUL?xQxY50gva_Jb6JFzkpl-ZCBFOSFwrl_GtQUVVtDrQtSTmG0EdXwqZzyxZjzhjIB



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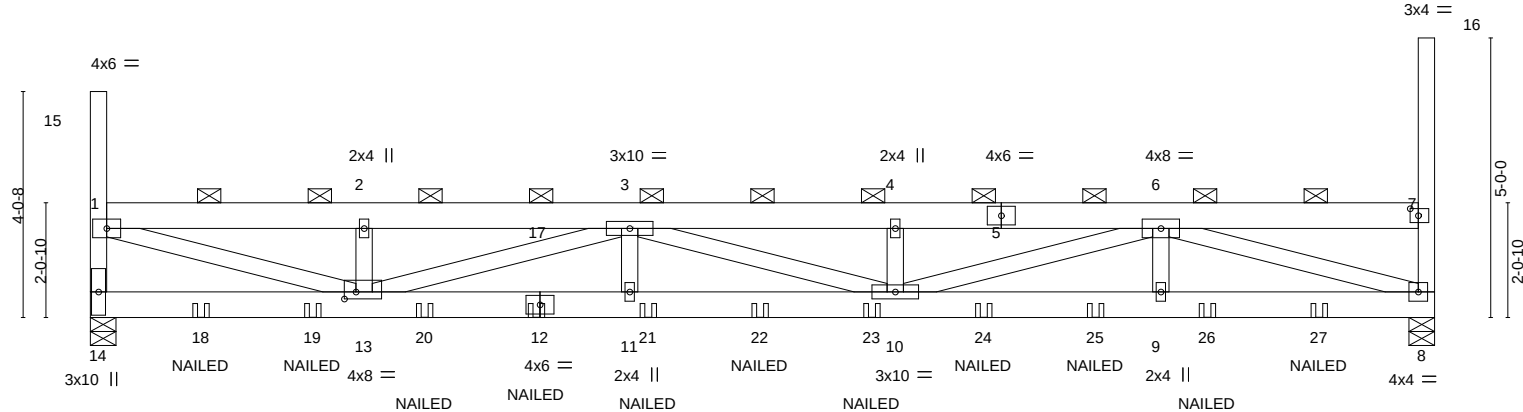


Plate Offsets (X,Y)--	[7:0-1-12,0-1-8], [13:0-2-8,0-1-8]
-----------------------	------------------------------------

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.32	Vert(LL) 0.27 10-11 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.40	Vert(CT) -0.25 10-11 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) -0.04 8 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 252 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD 2x6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 9-11-3 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (lb/size) 14=1340/0-5-8, 8=1338/0-5-8
Max Horz 14=280(LC 11)
Max Uplift 14=1010(LC 10), 8=888(LC 11)
Max Grav 14=1368(LC 29), 8=1367(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1239/898, 1-2=-3252/2627, 2-17=-3252/2627, 3-17=-3252/2627, 3-4=-4825/3840,
4-5=-4825/3840, 5-6=-4825/3840, 6-7=-400/376
BOT CHORD 14-18=-562/453, 18-19=-562/453, 13-19=-562/453, 13-20=-3828/4826, 12-20=-3828/4826,
11-12=-3828/4826, 11-21=-3828/4826, 21-22=-3828/4826, 22-23=-3828/4826,
10-23=-3828/4826, 10-24=-2447/3257, 24-25=-2447/3257, 9-25=-2447/3257,
9-26=-2447/3257, 26-27=-2447/3257, 8-27=-2447/3257
WEBS 1-13=-2542/3256, 2-13=-286/282, 3-13=-1661/1383, 3-11=-342/246, 4-10=-279/272,
6-10=-1506/1654, 6-9=-277/253, 6-8=-3264/2420

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1010 lb uplift at joint 14 and 888 lb uplift at joint 8.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0440425
J220197-G02F	B21	FLAT GIRDER	2	2	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:42:10 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-ZCBFOSFwrl_GtQUVVtDrQtSTmG0EdXwqZzyxZjzhjIB

- NOTES-**
- 11) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-17=-58, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 12=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-73-to-17=-58, 5=-58-to-7=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-17=-48, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 12=-54(B) 18=-54(B) 19=-54(B) 20=-54(B) 21=-54(B) 22=-54(B) 23=-54(B) 24=-54(B) 25=-54(B) 26=-54(B) 27=-57(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-17=-48, 5=-49-to-7=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 5-17=-36, 8-14=-20
 - Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
 - Concentrated Loads (lb)
 - Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=92(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 5-17=-36, 8-14=-20
 - Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
 - Concentrated Loads (lb)
 - Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=61(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 5-17=-36, 8-14=-20
 - Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
 - Concentrated Loads (lb)
 - Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=82(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 5-17=-36, 8-14=-20
 - Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
 - Concentrated Loads (lb)
 - Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=82(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-17=-60, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 12=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=67(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-17=-60, 5=-60-to-7=-75

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

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

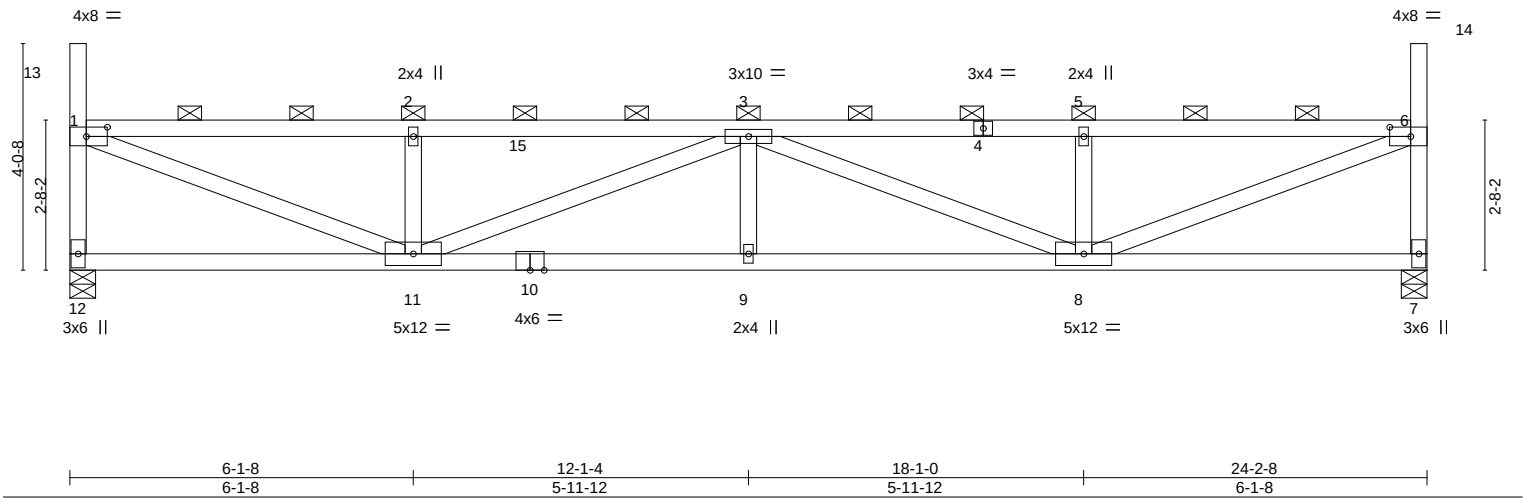


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B22	Flat	3	1	ISO440426

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:48 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-6ze2NHYC4S2g8U4DFcP_5VjV_Muk7xalyn3GnLzhuDv
18-1-0 24-2-8
6-1-8 12-1-4 5-11-12 6-1-8
Scale = 1:41.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.17 9 >999 240	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.30 9-11 >946 180				
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.05 7 n/a n/a				
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							
BCDL	10.0										
								Weight: 98 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-7-5 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-10-7 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS.	
(size)	12=0-5-8, 7=0-5-8
Max Horz	12=-198(LC 10)
Max Uplift	12=-73(LC 10), 7=-73(LC 11)
Max Grav	12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-12=-955/560, 1-2=-1964/1050, 2-3=-1964/1050, 3-5=-1964/1049, 5-6=-1964/1049, 6-7=-955/560
BOT CHORD	11-12=-354/320, 9-11=-1443/2538, 8-9=-1443/2538
WEBS	1-11=-1111/2043, 2-11=-408/345, 3-11=-628/424, 3-8=-628/419, 5-8=-408/344, 6-8=-1114/2043

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard	
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 4-15=-58, 7-12=-20	



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B22	Flat	3	1	I50440426
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:48 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

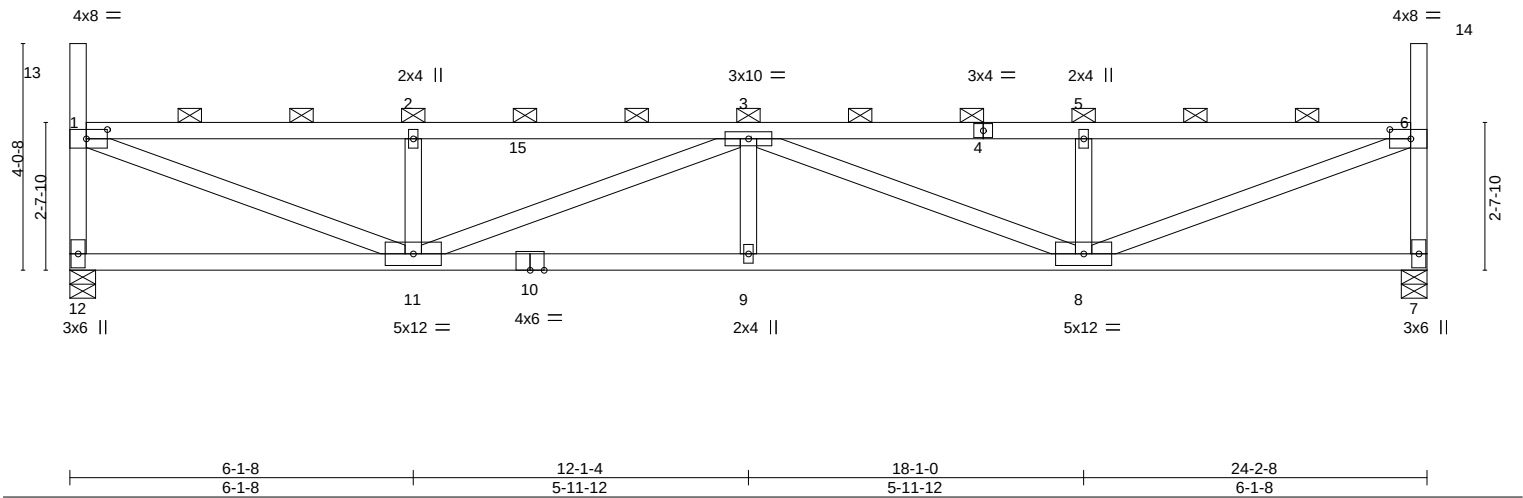


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B23	Flat	3	1	IS0440427

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:49 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-aACQbdZrrmAXmefPpJxDdjGfcmDmsOhSBRppJozhuDu 18-1-0 24-2-8 6-1-8

Scale = 1:41.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.18 9 >999	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.31 9-11 >917				
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.05 7 n/a				
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							
BCDL	10.0										
								Weight: 98 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-6-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-9-15 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS.	
(size)	12=0-5-8, 7=0-5-8
Max Horz	12=200(LC 11)
Max Uplift	12=-73(LC 10), 7=-73(LC 11)
Max Grav	12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-12=-955/560, 1-2=-1998/1069, 2-3=-1998/1069, 3-5=-1998/1067, 5-6=-1998/1067, 6-7=-955/561
BOT CHORD	11-12=-361/326, 9-11=-1467/2582, 8-9=-1467/2582
WEBS	1-11=-1128/2073, 2-11=-408/345, 3-11=-637/432, 3-8=-637/427, 5-8=-408/344, 6-8=-1131/2073

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard	
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 4-15=-58, 7-12=-20	



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B23	Flat	3	1	I50440427
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:49 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-aACQbdZrrmAXmefPpJxDdjGfcmDmsOhSBRppJozhuDu

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440428
J220197-G02R	B24	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:51:22 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-XYKB0Ja5NNQF?ypoxkzhj8L?zau1KI2lellwOgzhuDs
18-1-0 24-2-8
6-1-8 12-1-4 5-11-12 5-11-12 6-1-8
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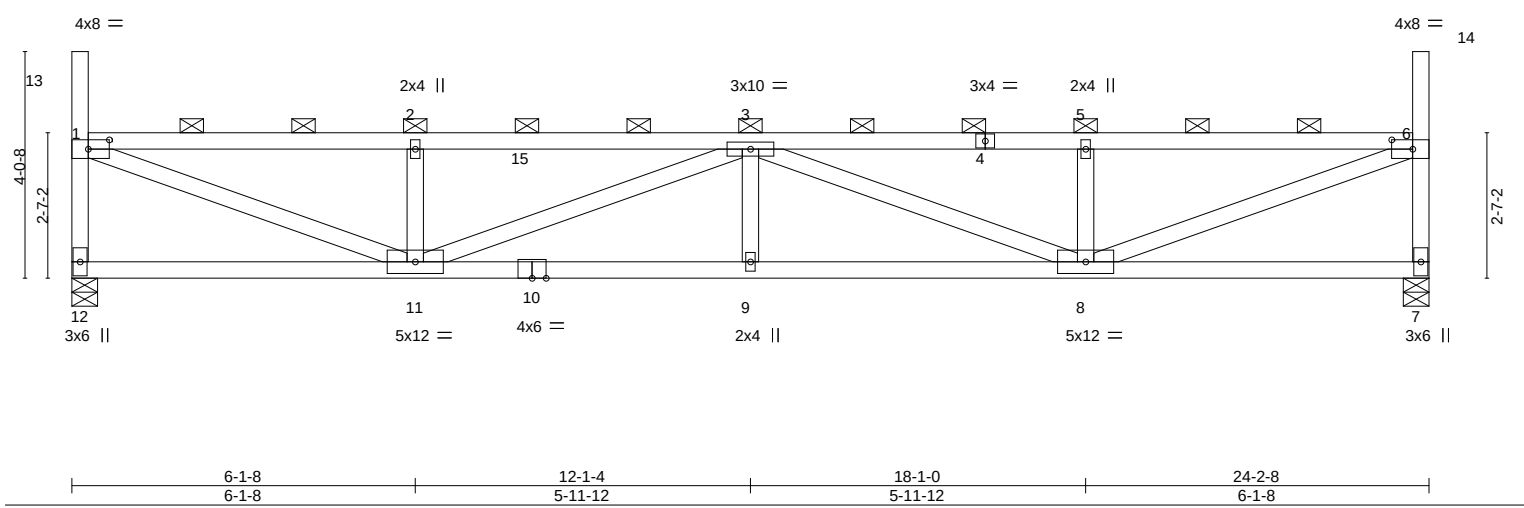


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.18	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.32	9-11	>888	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-6-5 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-9-7 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-202(LC 10)
 Max Uplift 12=-73(LC 10), 7=-73(LC 11)
 Max Grav 12=1016(LC 29), 7=1016(LC 29)

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

TOP CHORD	1-12=-955/561, 1-2=-2034/1088, 2-3=-2034/1088, 3-5=-2034/1086, 5-6=-2034/1086, 6-7=-955/561
BOT CHORD	11-12=-367/332, 9-11=-1492/2629, 8-9=-1492/2629
WEBS	1-11=-1146/2104, 2-11=-408/345, 3-11=-648/439, 3-8=-648/435, 5-8=-408/344, 6-8=-1149/2104

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B24	Flat	3	1	I50440428
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:51 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-XYKB0Ja5NNQF?ypoxkzhj8L?zau1KI2lellwOgzhuD

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B25	Flat	3	1	ISO440429

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:52 2022 Page 1
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18-1-0 24-2-8

6-1-8 6-1-8 12-1-4 5-11-12 5-11-12 6-1-8

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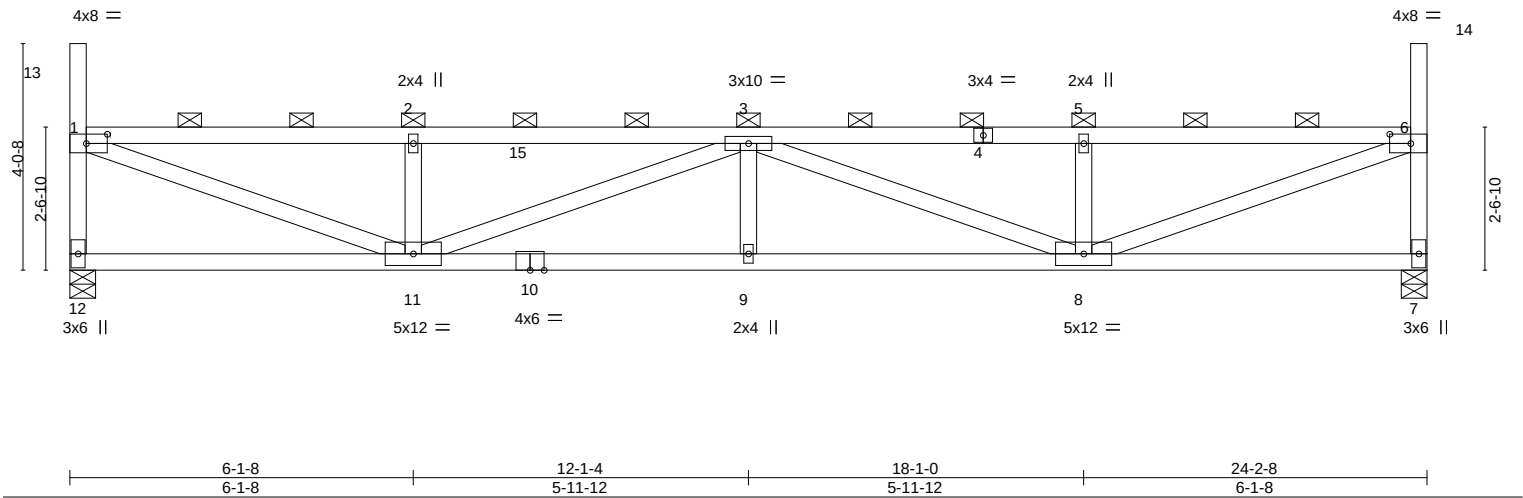


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	in (loc)	I/defl	L/d	GRIP
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.79	0.19 9	>999	240	197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	-0.33 9-11	>859	180	
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		0.05 7	n/a	n/a	
BCDL	10.0								
								Weight: 97 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-5-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-8-15 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-204(LC 10)
Max Uplift 12=-73(LC 10), 7=-73(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-955/561, 1-2=-2070/1107, 2-3=-2070/1107, 3-5=-2070/1106, 5-6=-2070/1106, 6-7=-955/561
BOT CHORD 11-12=-375/339, 9-11=-1518/2677, 8-9=-1518/2677
WEBS 1-11=-1165/2137, 2-11=-407/345, 3-11=-658/448, 3-8=-658/443, 5-8=-407/344, 6-8=-1168/2137

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B25	Flat	3	1	I50440429
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

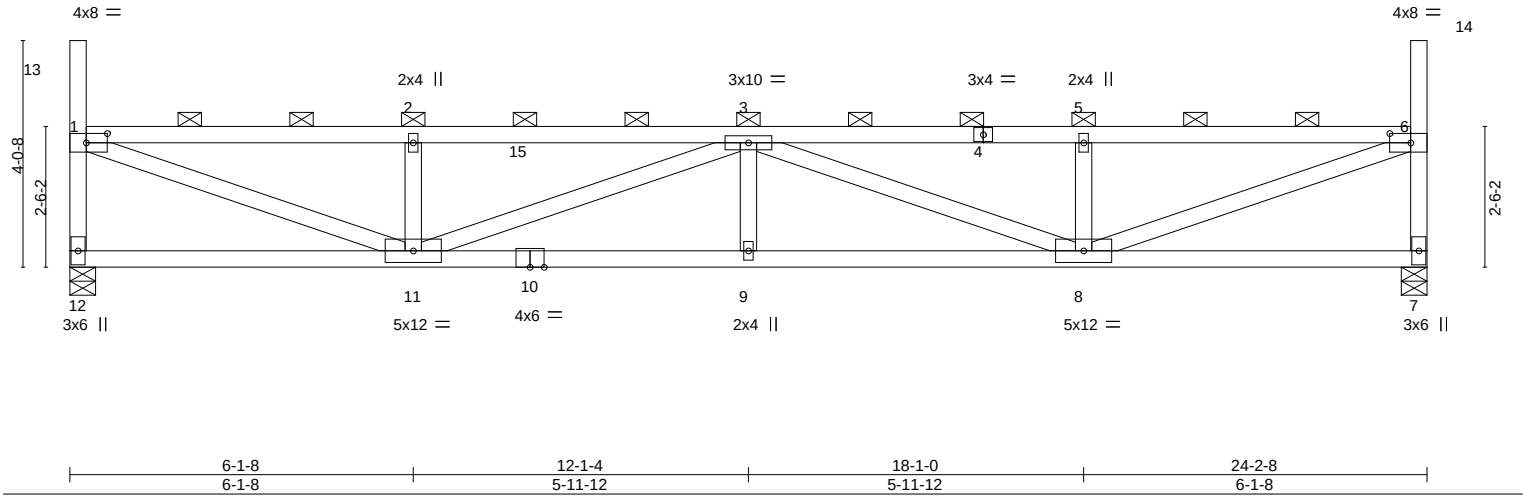
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:52 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B26	Flat	3	1	ISO440430

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:53 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-TxRxQ?cLv_gzFGzB29?9oZRLBNa3oCF163n1SZzhuDq
18-1-0 24-2-8
6-1-8 12-1-4 5-11-12 6-1-8
Scale = 1:41.1



LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.61	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Lumber DOL 1.15	BC 0.80	Vert(LL) 0.20 9 >999 240		
TCDL 10.0	Rep Stress Incr NO	WB 0.83	Vert(CT) -0.35 9-11 >830 180		
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.05 7 n/a n/a		
BCDL 10.0				Weight: 97 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (3-5-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-8-6 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-206(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-954/561, 1-2=-2108/1128, 2-3=-2108/1128, 3-5=-2108/1126, 5-6=-2108/1126, 6-7=-954/562
BOT CHORD 11-12=-382/345, 9-11=-1544/2726, 8-9=-1544/2726
WEBS 1-11=-1184/2170, 2-11=-407/345, 3-11=-669/456, 3-8=-669/451, 5-8=-407/344, 6-8=-1187/2170

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B26	Flat	3	1	IS0440430
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:53 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-TxRxQ?cLv_gzFGzB29?9oZRLBNa3oCF163n1SZzhuDq

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B27	Flat	3	1	ISO440431

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:54 2022 Page 1
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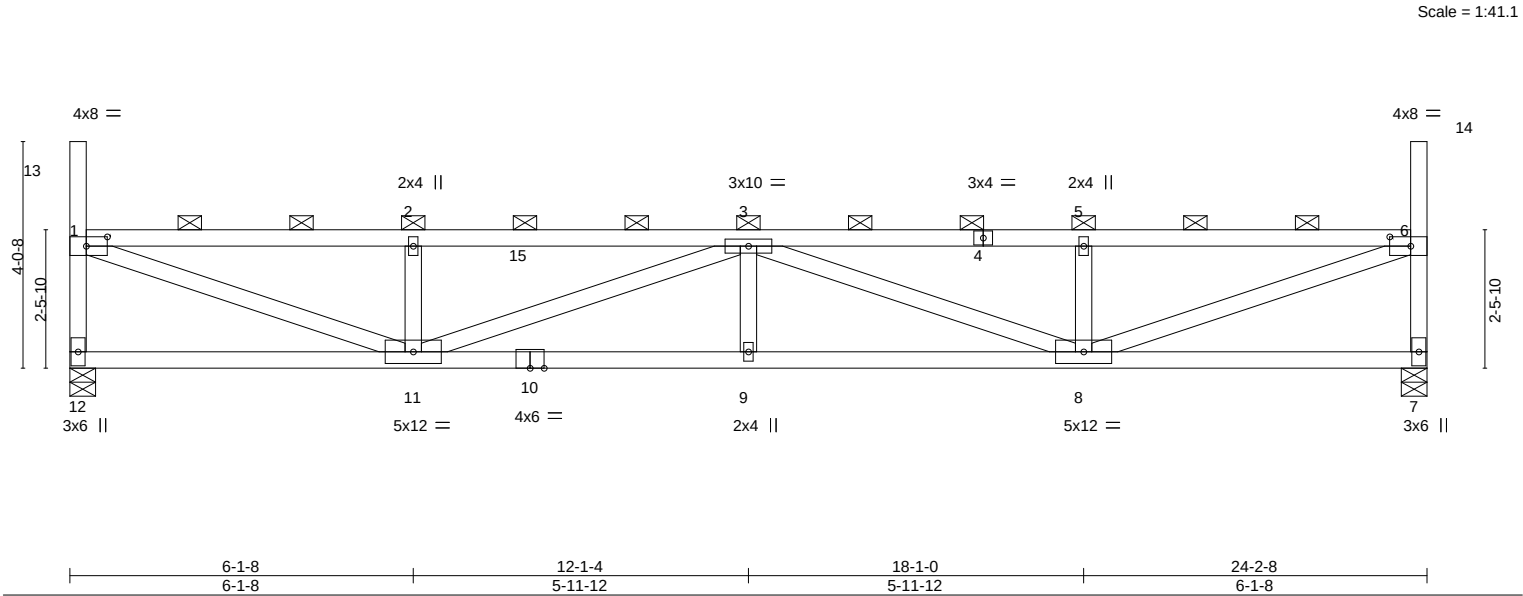


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.82	0.20 9	>999		197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.84	-0.36 9-11	>802		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		0.06 7	n/a		
BCDL	10.0							Weight: 97 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-4-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-7-14 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-209(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-954/562, 1-2=-2148/1149, 2-3=-2148/1149, 3-5=-2148/1147, 5-6=-2148/1147, 6-7=-954/562
BOT CHORD 11-12=-389/351, 9-11=-1572/2778, 8-9=-1572/2778
WEBS 1-11=-1203/2205, 2-11=-407/345, 3-11=-681/465, 3-8=-681/460, 5-8=-407/344, 6-8=-1207/2205

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B27	Flat	3	1	I50440431
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:54 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

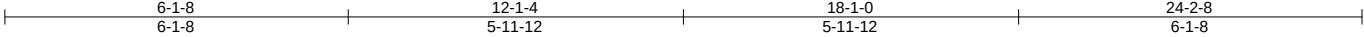
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B28	Flat	3	1	ISO440432

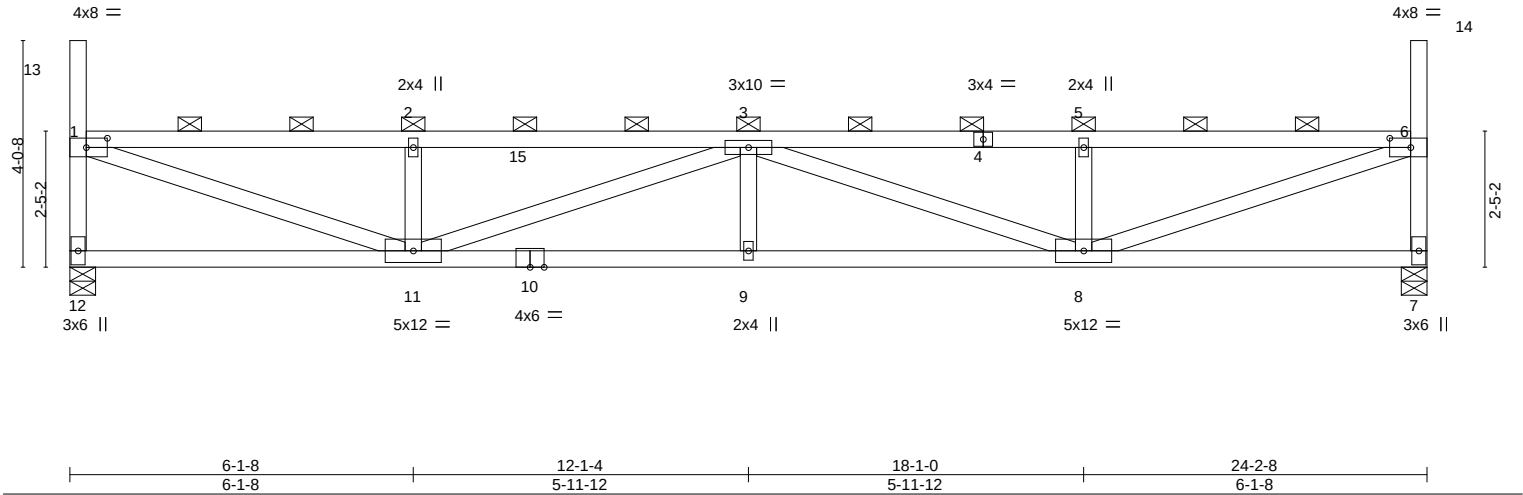
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:55 2022 Page 1

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Scale = 1:41.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.21 9 >999	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.37 9-11 >774				
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.06 7 n/a				
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							
BCDL	10.0										
								Weight: 97 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-4-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-7-6 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=211(LC 11)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-954/562, 1-2=-2189/1171, 2-3=-2189/1171, 3-5=-2189/1169, 5-6=-2189/1169, 6-7=-954/562
BOT CHORD 11-12=-397/358, 9-11=-1600/2831, 8-9=-1600/2831
WEBS 1-11=-1224/2241, 2-11=-406/345, 3-11=-693/474, 3-8=-693/469, 5-8=-406/344, 6-8=-1227/2241

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B28	Flat	3	1	I50440432
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:55 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B29	Flat	3	1	150440433
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

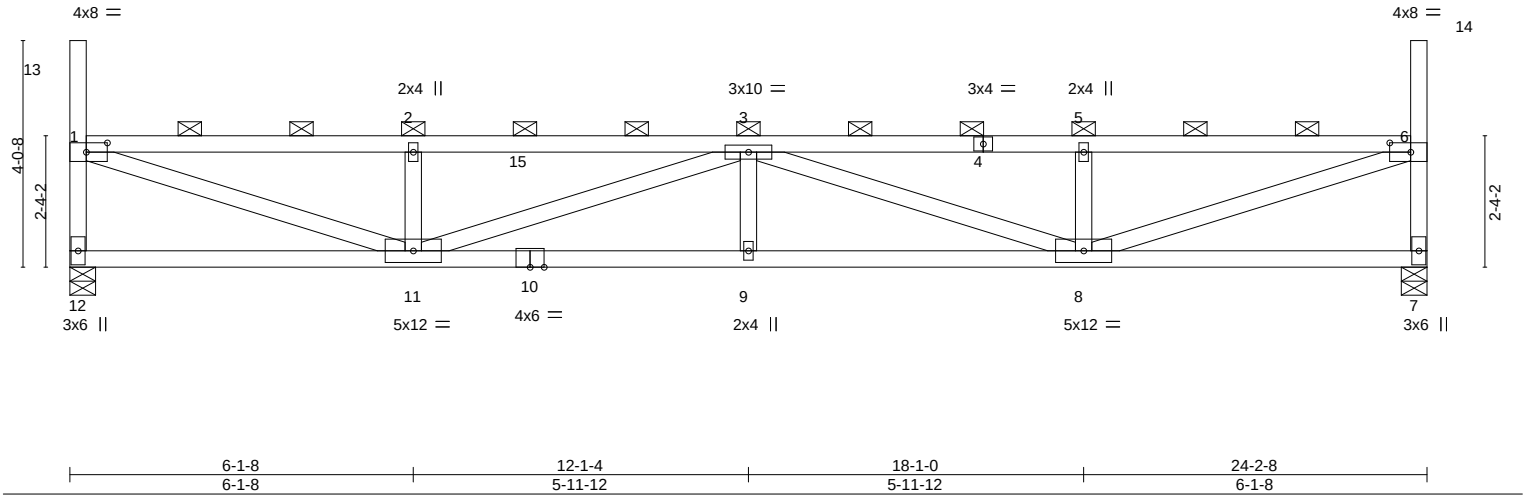
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:57 2022 Page 2
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- LOAD CASE(S)** Standard Except:
- Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 4-6=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 4-6=-47, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 4-6=-47, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 4-6=-47, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 4-6=-47, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B30	Flat	3	1	ISO440434

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:58 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-puFqUigUkXIGL1r8ribKvc8BFOGETRnnFKUo8mzhuDI
18-1-0 24-2-8
6-1-8 12-1-4 5-11-12 6-1-8
Scale = 1:41.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.23 9 >999	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.40 9-11 >720				
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.06 7 n/a				
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-3-4 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-6-5 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-215(LC 10)
Max Uplift 12=-74(LC 10), 7=-74(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-953/562, 1-2=-2275/1217, 2-3=-2275/1217, 3-5=-2275/1215, 5-6=-2275/1215, 6-7=-953/563
BOT CHORD 11-12=-413/371, 9-11=-1660/2945, 8-9=-1660/2945
WEBS 1-11=-1267/2318, 2-11=-405/345, 3-11=-718/494, 3-8=-718/487, 5-8=-405/343, 6-8=-1271/2318

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B30	Flat	3	1	IS0440434
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:58 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-puFqUigUkXIGL1r8ribKvc8BFOGETRnnFKUo8mzhuDI

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

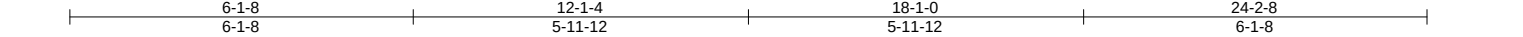


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B31	Flat	3	1	ISO440435

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:59 2022 Page 1
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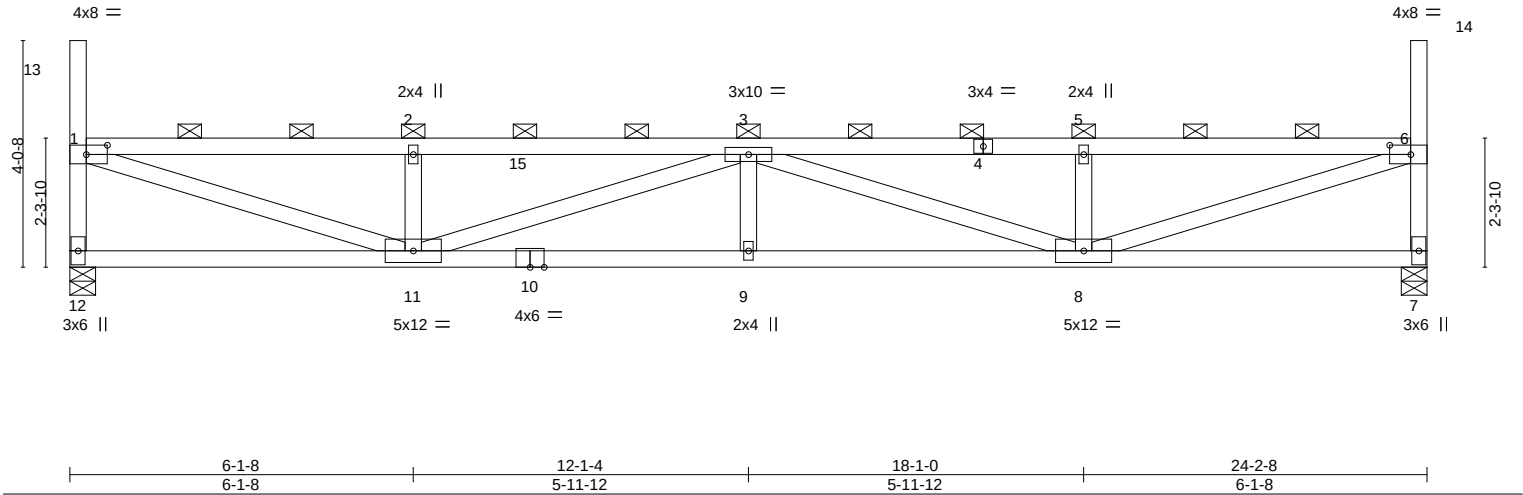


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.24	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.41	9-11	>693	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-2-11 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-7-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-217(LC 10)
Max Uplift 12=-16(LC 10), 7=-16(LC 11)
Max Grav 12=1016(LC 2), 7=1016(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-953/504, 1-2=-2321/1158, 2-3=-2321/1158, 3-5=-2321/1157, 5-6=-2321/1157, 6-7=-953/505
BOT CHORD 11-12=-412/388, 9-11=-1618/3005, 8-9=-1618/3005
WEBS 1-11=-1213/2358, 2-11=-405/316, 3-11=-721/515, 3-8=-721/508, 5-8=-405/314, 6-8=-1217/2358

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B31	Flat	3	1	I50440435
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:59 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-I5oCh2g6UqR7zBQKPQ6Z1qhMoocBCvgwU_ELgDzhuDk

LOAD CASE(S) Standard

- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-48-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=86, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=54-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-86
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=54-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B31	Flat	3	1	IS0440435
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:59 2022 Page 3
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-I5oCh2g6UqR7zBQKPQ6Z1qhMoocBCvgwU_ELgDzhuDk

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B31	Flat	3	1	IS0440435
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:15:59 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-I5oCh2g6UqR7zBQKQPQ6Z1qhMoocBCvgwU_ELgDzhuDk

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-28, 7-12=-12
Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-43-to-15=-28, 4=-28-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=4, 7-12=-12
Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
- Trapezoidal Loads (plf)
Vert: 1=-11-to-15=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440436
J220197-G02R	B32	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:00 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-mHMaUOhkF8ZzaK?Xy7doa1DXLCx8xLu3jezvCfzhuDj

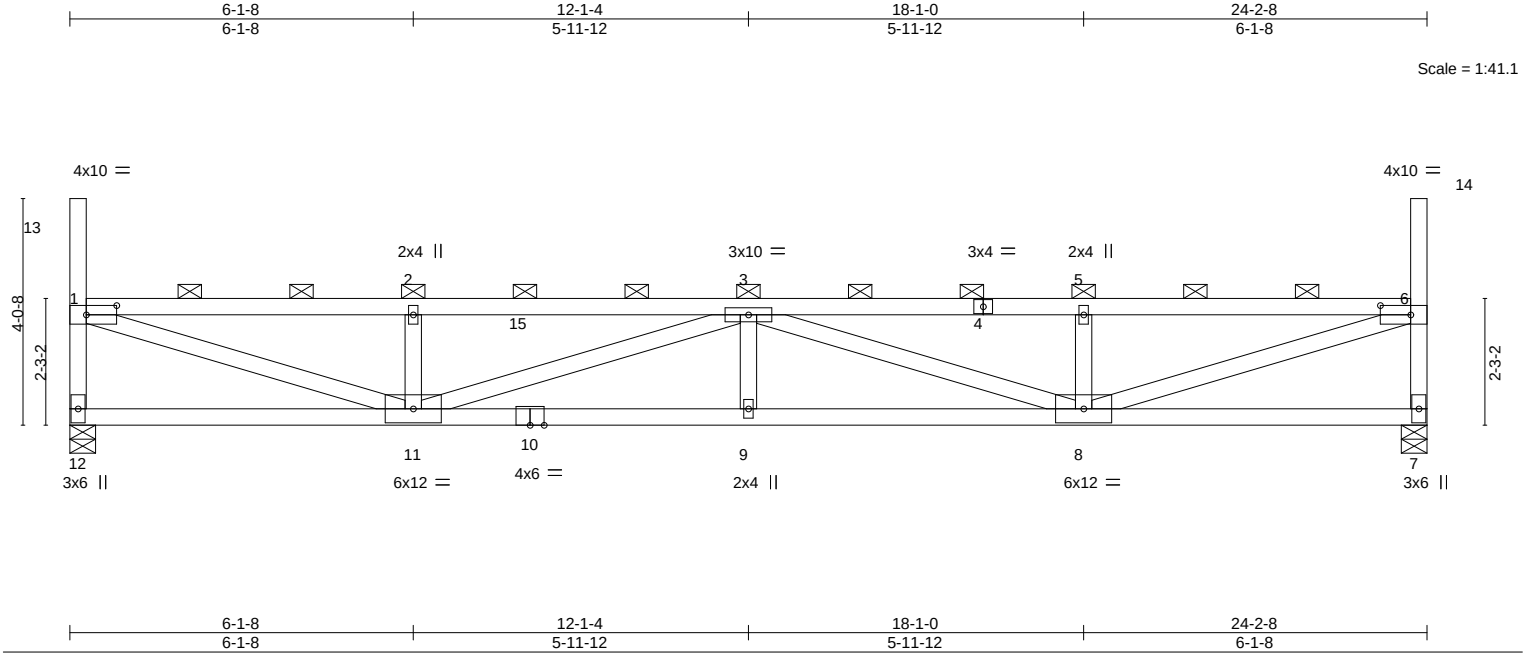


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	in (loc)	l/defl	L/d	GRIP
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	0.24 9	>999	240	MT20 197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.90	-0.43 9-11	>667	180	
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		0.06 7	n/a	n/a	
BCDL	10.0								Weight: 96 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-2-2 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-5-4 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-220(LC 12)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-952/563, 1-2=-2369/1267, 2-3=-2369/1267, 3-5=-2369/1265, 5-6=-2369/1265, 6-7=-952/564
BOT CHORD 11-12=-430/386, 9-11=-1724/3067, 8-9=-1724/3067
WEBS 1-11=-1314/2401, 2-11=-404/345, 3-11=-746/515, 3-8=-746/508, 5-8=-404/343, 6-8=-1319/2401

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Continued on page 2

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B32	Flat	3	1	I50440436
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

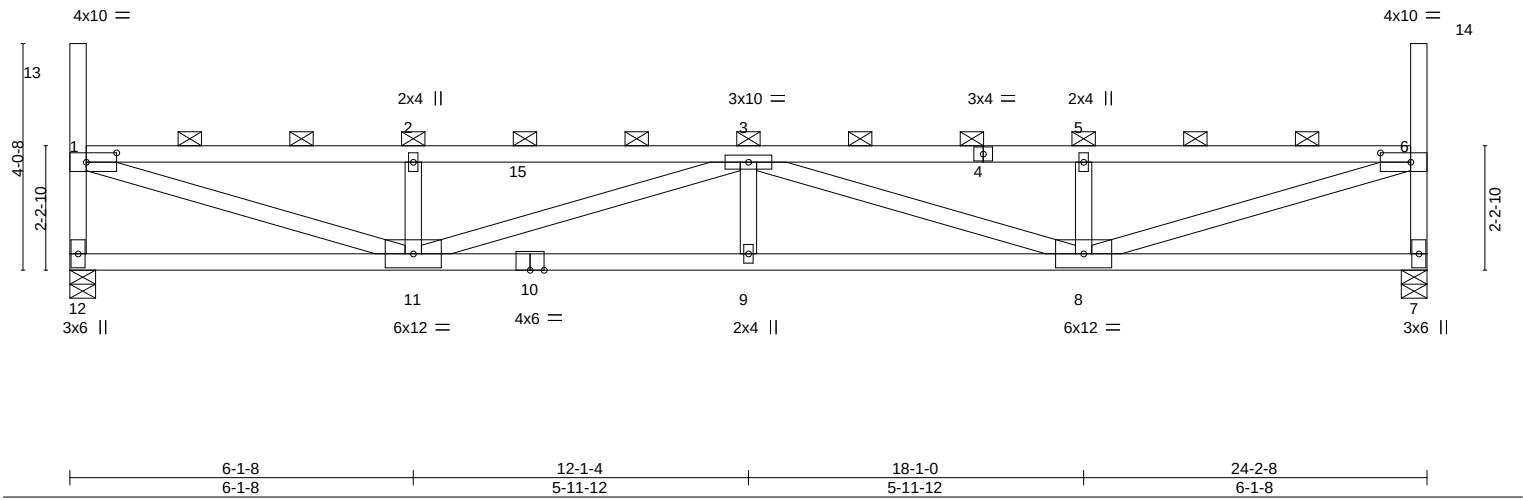
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:00 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-mHMaUOhkF8ZzaK?Xy7doa1DXLCx8xLu3jezvCfzhuDj

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440437
J220197-G02R	B33	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:01 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-ETwz6kiM0ShqCUajWr817FmiscH3gnwDyljSk5zhuDi
18-1-0 24-2-8
6-1-8 12-1-4 5-11-12 6-1-8
Scale = 1:41.1



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.25	9	>999	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.45	9-11	>641		
TCDL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.06	7	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS						Weight: 96 lb	FT = 20%
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-1-9 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-4-10 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-222(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-952/563, 1-2=-2419/1294, 2-3=-2419/1294, 3-5=-2419/1292, 5-6=-2419/1292, 6-7=-952/564
BOT CHORD 11-12=-439/393, 9-11=-1758/3132, 8-9=-1758/3132
WEBS 1-11=-1339/2445, 2-11=-404/345, 3-11=-761/526, 3-8=-761/519, 5-8=-404/343, 6-8=-1344/2445

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25, 2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B33	Flat	3	1	IS0440437
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:01 2022 Page 2
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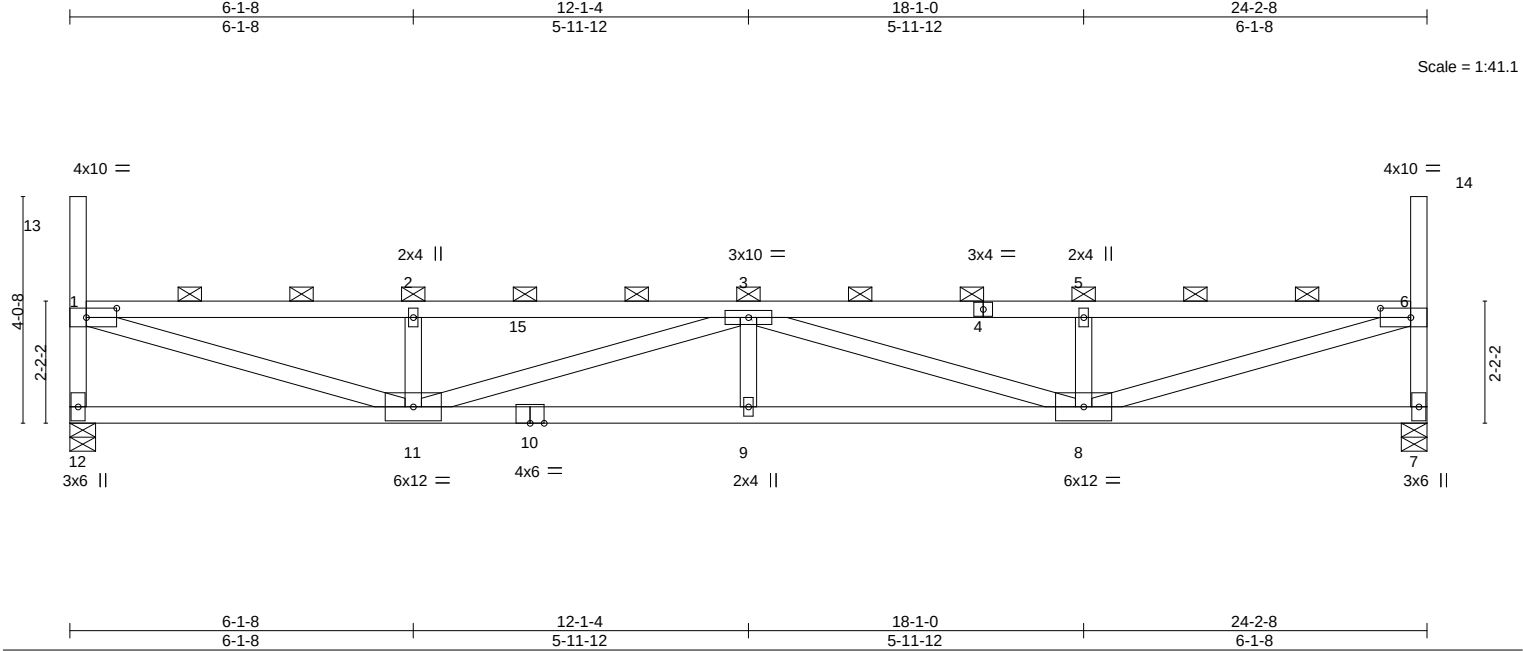
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440438
J220197-G02R	B34	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:02 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-gULJ4j_nlphe9v4YfGfSJsM0c_PExMAyS?HYzhuDh



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.27 9 >999	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.47 9-11 >615				
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.06 7 n/a				
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							
BCDL	10.0										
								Weight: 95 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-0-14 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-4-1 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-224(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-952/563, 1-2=-2470/1321, 2-3=-2470/1321, 3-5=-2470/1319, 5-6=-2470/1319, 6-7=-952/564
BOT CHORD 11-12=-448/401, 9-11=-1793/3200, 8-9=-1793/3200
WEBS 1-11=-1365/2491, 2-11=-403/345, 3-11=-777/538, 3-8=-777/530, 5-8=-403/343, 6-8=-1370/2491

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B34	Flat	3	1	IS0440438
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:03 2022 Page 2
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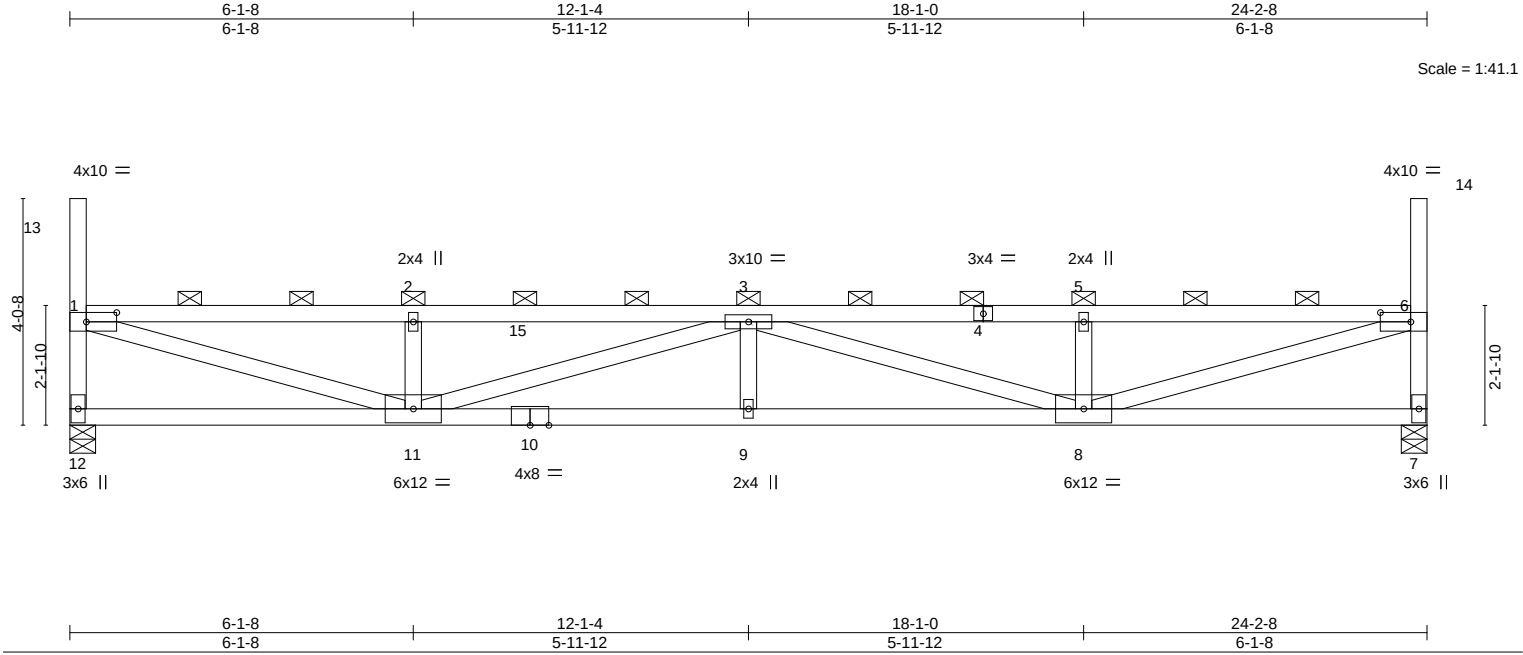
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440439
J220197-G02R	B35	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:04 2022 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.28 9 >999 240	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.49 9-11 >590 180				
TCDL	10.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.07 7 n/a n/a				
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							
BCDL	10.0										
								Weight: 95 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-0-4 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-3-9 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-226(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/563, 1-2=-2524/1350, 2-3=-2524/1350, 3-5=-2524/1348, 5-6=-2524/1348, 6-7=-951/564
BOT CHORD 11-12=-457/409, 9-11=-1830/3271, 8-9=-1830/3271
WEBS 1-11=-1392/2539, 2-11=-403/345, 3-11=-793/550, 3-8=-793/542, 5-8=-403/343, 6-8=-1398/2539

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B35	Flat	3	1	I50440439
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

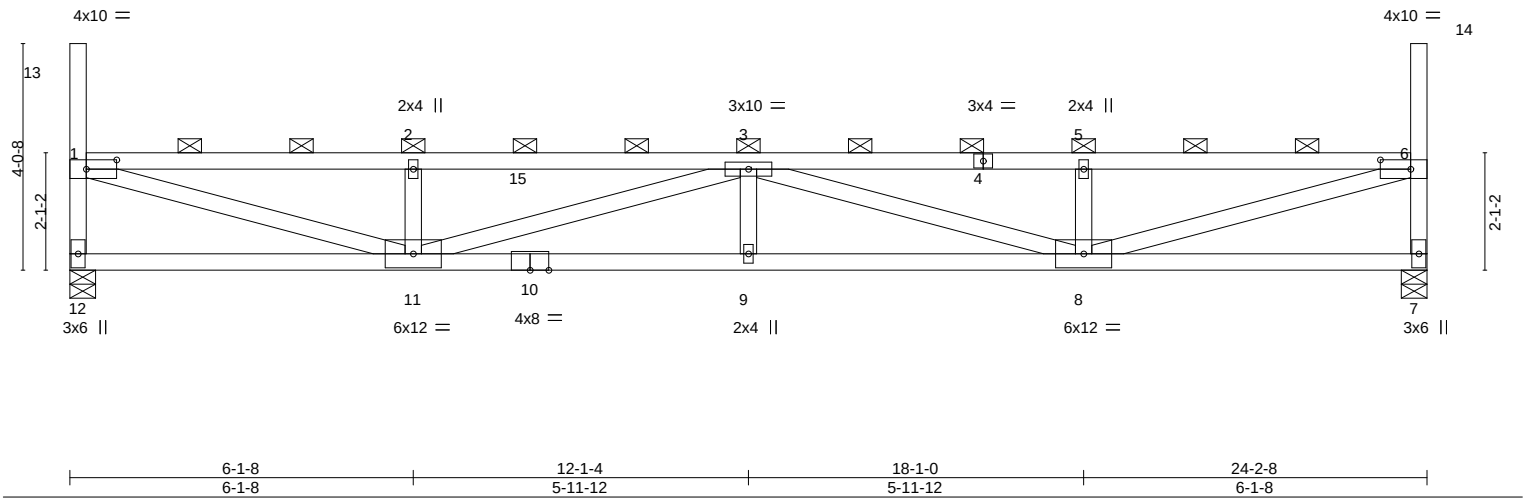
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:04 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkopl-e2c5klkFJN3P3yJlBzikktOBapH7t8CfeGx6LQzhuDf

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO440440
J220197-G02R	B36	Flat	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:05 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcp1-6FATy5lt4gBGh6uUlgDzH5wM2Dd0cbCotwhguszhDe
18-1-0 24-2-8
6-1-8 12-1-4 5-11-12 6-1-8
Scale = 1:41.1



LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.75	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Lumber DOL 1.15	BC 0.98	Vert(LL) 0.29 9 >994 240		
TCDL 10.0	Rep Stress Incr NO	WB 0.95	Vert(CT) -0.51 9 >565 180		
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) 0.07 7 n/a n/a		
BCDL 10.0				Weight: 95 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (2-11-9 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-3-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-228(LC 10)
Max Uplift 12=-75(LC 10), 7=-75(LC 11)
Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-951/564, 1-2=-2581/1381, 2-3=-2581/1381, 3-5=-2581/1378, 5-6=-2581/1378, 6-7=-951/564
BOT CHORD 11-12=-467/417, 9-11=-1868/3346, 8-9=-1868/3346
WEBS 1-11=-1421/2589, 2-11=-402/344, 3-11=-810/563, 3-8=-810/555, 5-8=-402/342, 6-8=-1426/2589

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20



February 25, 2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	B36	Flat	3	1	IS0440440
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

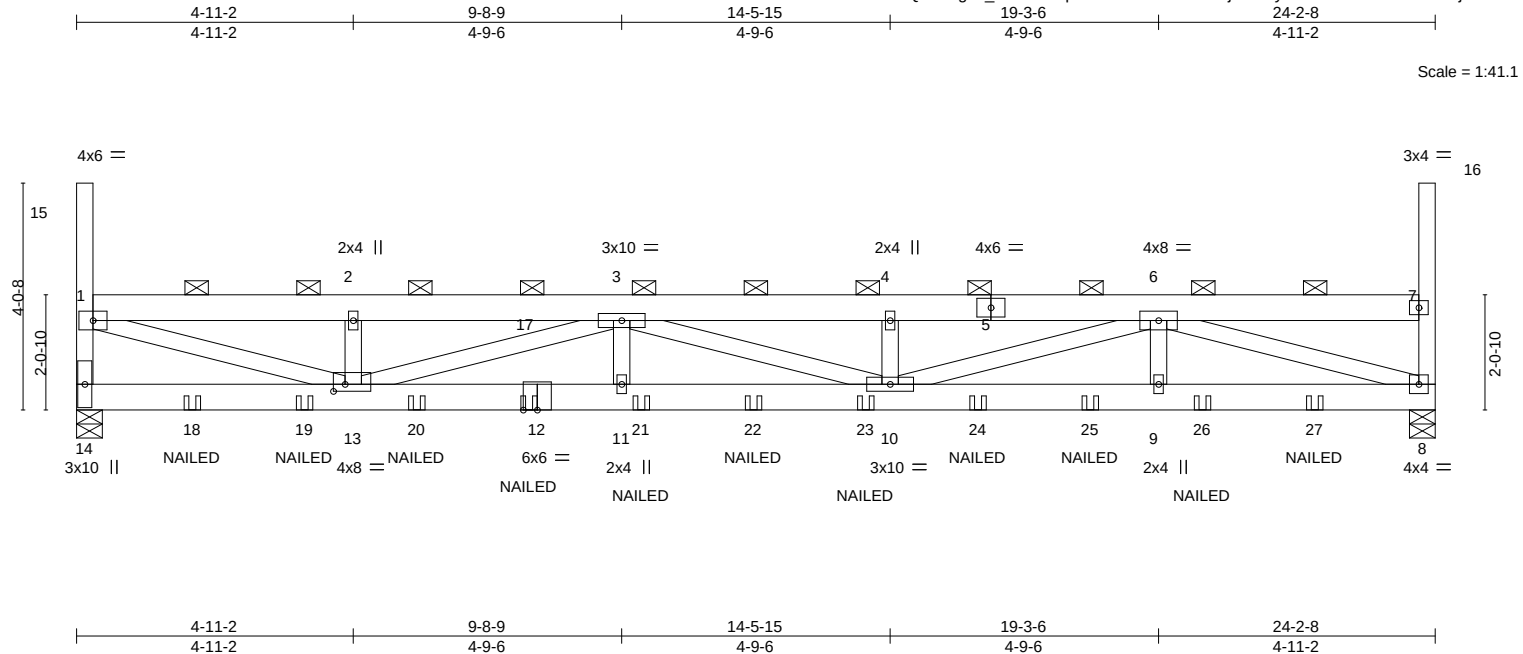
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:05 2022 Page 2
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- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-15=-48, 4=-48-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-15=-36, 7-12=-20
- Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0440441
J220197-G02F	B37	FLAT GIRDER	3	2	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:43:50 2022 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Lumber DOL 1.15	BC 0.33	Vert(LL) 0.28 10-11 >999 240		
TCDL 10.0	Rep Stress Incr NO	WB 0.40	Vert(CT) -0.26 10-11 >999 180		
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) -0.04 8 n/a n/a		
BCDL 10.0				Weight: 251 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD 2x6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 9-9-11 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (lb/size) 14=1347/0-5-8, 8=1345/0-5-8
Max Horz 14=-232(LC 12)
Max Uplift 14=-1007(LC 10), 8=-904(LC 11)
Max Grav 14=1376(LC 2), 8=1376(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1248/899, 1-2=-3297/2656, 2-17=-3297/2656, 3-17=-3297/2656, 3-4=-4895/3858, 4-5=-4895/3858, 5-6=-4895/3858, 6-7=-223/266
BOT CHORD 14-18=-482/401, 18-19=-482/401, 13-19=-482/401, 13-20=-3921/4896, 12-20=-3921/4896, 11-12=-3921/4896, 11-21=-3921/4896, 21-22=-3921/4896, 22-23=-3921/4896, 10-23=-3921/4896, 10-24=-2451/3303, 24-25=-2451/3303, 9-25=-2451/3303, 9-26=-2451/3303, 26-27=-2451/3303, 8-27=-2451/3303
WEBS 1-13=-2557/3299, 2-13=-289/280, 3-13=-1686/1387, 3-11=-348/249, 4-10=-280/264, 6-10=-1494/1677, 6-9=-268/253, 6-8=-3309/2488

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1007 lb uplift at joint 14 and 904 lb uplift at joint 8.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440441
J220197-G02F	B37	FLAT GIRDER	3	2	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:43:50 2022 Page 2
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NOTES-

- 11) Load case(s) 20 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-17=-58, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 12=-65(B) 18=-65(B) 19=-65(B) 20=-65(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-73-to-17=-58, 5=-58-to-7=-73
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 - Uniform Loads (plf)
 - Vert: 5-17=-20, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 12=-23(B) 18=-23(B) 19=-23(B) 20=-23(B) 21=-23(B) 22=-23(B) 23=-23(B) 24=-23(B) 25=-23(B) 26=-23(B) 27=-33(B)
 - Trapezoidal Loads (plf)
 - Vert: 1=-28-to-17=-20, 5=-20-to-7=-28

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0440442
J220197-G02F	B38	JACK-CLOSED GIRDER	1	2	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:45:11 2022 Page 1
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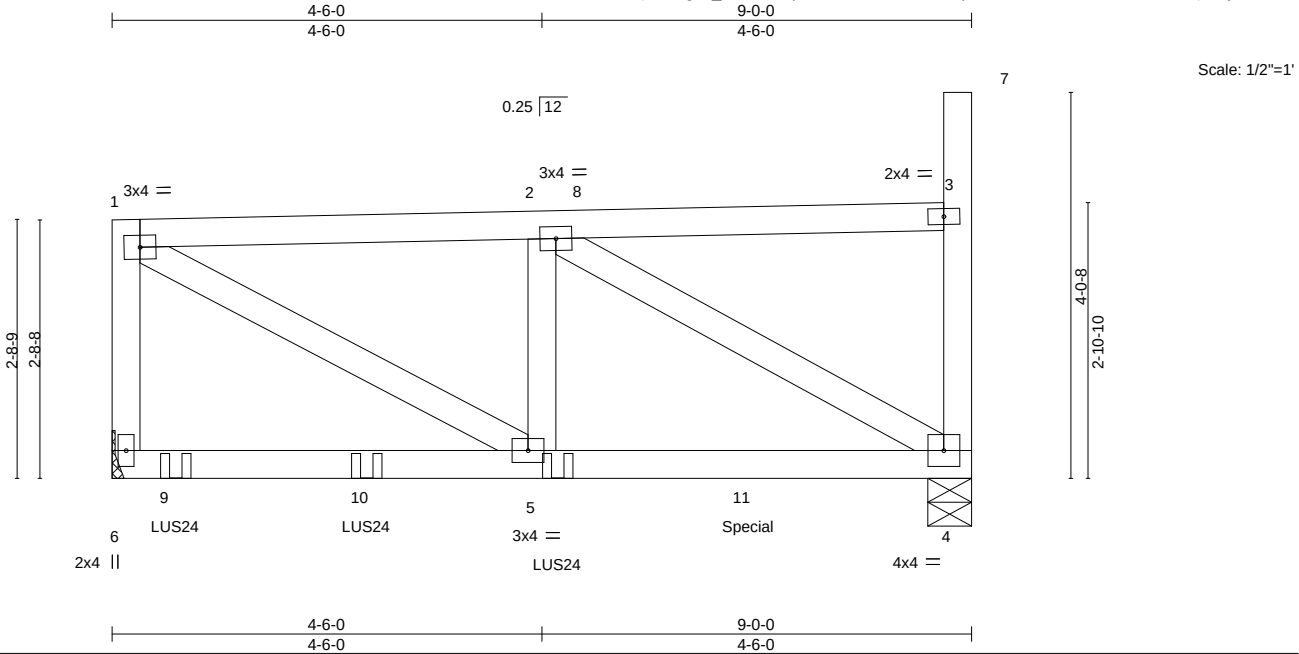


Plate Offsets (X,Y)-- [3:0-0-0,0-0-0], [4:0-0-0,0-0-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.21	in (loc)	l/defl	L/d	GRIP
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.72	Vert(LL)	0.09 4-5	>999	240
TCDL	10.0	Rep Stress Incr	NO	WB	0.16	Vert(CT)	-0.09 4-5	>999	180
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Horz(CT)	0.00 4	n/a	n/a
BCDL	10.0								
								Weight: 80 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (lb/size) 6=1077/Mechanical, 4=880/0-5-8		PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED	
Max Horz 6=143(LC 11)		FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED FOR	
Max Uplift 6=167(LC 10), 4=200(LC 11)		LOADS REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE	
Max Grav 6=1148(LC 29), 4=988(LC 29)		ATTACHED WITH A MINIMUM OF 0.148"x 3" NAILS PER HANGER	
		MANUFACTURER SPECIFICATIONS.	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-6=-777/523, 1-2=-1167/637
BOT CHORD	6-9=-286/198, 9-10=-286/198, 5-10=-286/198, 5-11=-709/1165, 4-11=-709/1165
WEBS	1-5=-757/1333, 2-5=-112/398, 2-4=-1312/778

- NOTES-**
- 1) n/a
 - 2) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 4) Unbalanced roof live loads have been considered for this design.
 - 5) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 6) TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 7) Provide adequate drainage to prevent water ponding.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Refer to girder(s) for truss to truss connections.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 6 and 200 lb uplift at joint 4.
 - 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 13) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-8-0 from the left end to 4-8-0 to connect truss(es) to back face of bottom chord.



February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50440442
J220197-G02F	B38	JACK-CLOSED GIRDER	1	2	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:45:11 2022 Page 2
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- NOTES-**
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 662 lb down and 431 lb up at 6-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-48, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-298(B) 9=-322(B) 10=-317(B) 11=-401(B)
Trapezoidal Loads (plf)
Vert: 8=-48-to-3=-63
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-41, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-257(B) 9=-283(B) 10=-278(B) 11=-360(B)
Trapezoidal Loads (plf)
Vert: 8=-41-to-3=-52
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-28, 4-6=-20
Horz: 1-6=18, 1-3=-12, 3-4=5, 3-7=37
Concentrated Loads (lb)
Vert: 5=40(B) 9=11(B) 10=16(B) 11=-607(B)
Trapezoidal Loads (plf)
Vert: 8=-28-to-3=-40
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-36, 4-6=-20
Horz: 1-6=-5, 1-3=-5, 3-4=-18, 3-7=-37
Concentrated Loads (lb)
Vert: 5=40(B) 9=11(B) 10=16(B) 11=-386(B)
Trapezoidal Loads (plf)
Vert: 8=-36-to-3=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-28, 4-6=-20
Horz: 1-6=14, 1-3=-12, 3-4=3, 3-7=25
Concentrated Loads (lb)
Vert: 5=40(B) 9=11(B) 10=16(B) 11=-533(B)
Trapezoidal Loads (plf)
Vert: 8=-28-to-3=-40
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-36, 4-6=-20
Horz: 1-6=-3, 1-3=-5, 3-4=-14, 3-7=25
Concentrated Loads (lb)
Vert: 5=40(B) 9=11(B) 10=16(B) 11=-533(B)
Trapezoidal Loads (plf)
Vert: 8=-36-to-3=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-298(B) 9=-322(B) 10=-317(B) 11=-474(B)
Trapezoidal Loads (plf)
Vert: 8=-60-to-3=-75

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

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

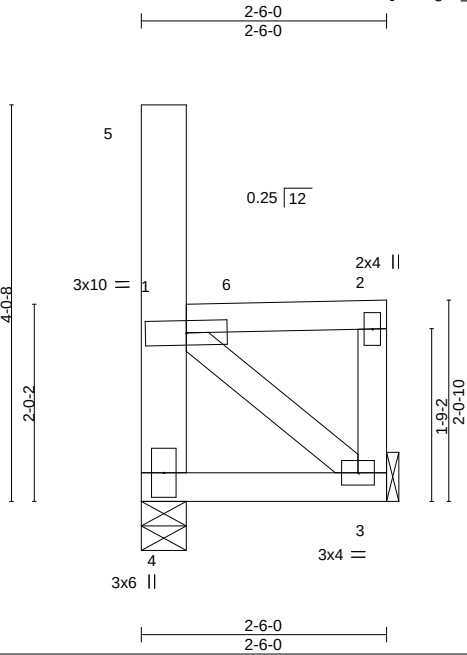


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	J01	Jack-Closed	104	1	ISO440443
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:09 2022 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.21	Vert(LL)	-0.00	3-4	>999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	-0.00	3-4	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 4-5: 2x6 SPF 1650F 1.5E	

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=162(LC 11)
Max Uplift 4=169(LC 10), 3=159(LC 11)
Max Grav 4=201(LC 13), 3=189(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-190/551
BOT CHORD 3-4=-344/522
WEBS 1-3=-623/411

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=169, 3=159.
 - 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 9) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



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Continued on page 2

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Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	J01	Jack-Closed	104	1	I50440443
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:09 2022 Page 2
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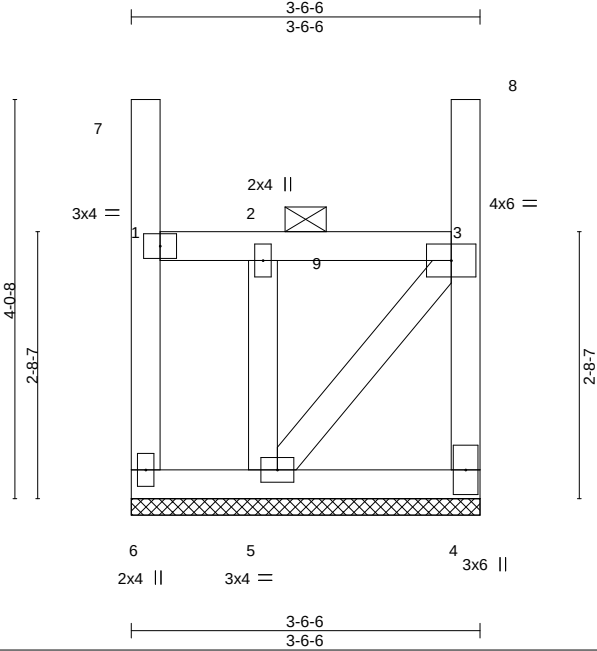
- LOAD CASE(S)** Standard
- Uniform Loads (plf)
- Vert: 2-6=-41, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-52-to-6=-41
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-28, 3-4=-20
- Horz: 1-4=18, 1-5=37, 1-2=-12, 2-3=5
- Trapezoidal Loads (plf)
- Vert: 1=-40-to-6=-28
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-36, 3-4=-20
- Horz: 1-4=-5, 1-5=-37, 1-2=-5, 2-3=-18
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-6=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-28, 3-4=-20
- Horz: 1-4=14, 1-5=-25, 1-2=-12, 2-3=3
- Trapezoidal Loads (plf)
- Vert: 1=-40-to-6=-28
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-36, 3-4=-20
- Horz: 1-4=-3, 1-5=-25, 1-2=-5, 2-3=-14
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-6=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-6=-60, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-6=-60

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T01	Flat Supported Gable	3	1	I50440444
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:10 2022 Page 1
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Scale = 1:23.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.27	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.15	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 22 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-7, 1-3, 3-8, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 8-8-2 oc bracing.
WEBS 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS. (size) 6=3-6-6, 4=3-6-6, 5=3-6-6
Max Horz 6=-196(LC 10)
Max Uplift 6=-36(LC 10), 4=-228(LC 11), 5=-187(LC 10)
Max Grav 6=51(LC 23), 4=237(LC 12), 5=268(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-258/198, 2-3=-258/198, 3-4=-467/681
BOT CHORD 5-6=-469/501
WEBS 3-5=-709/724

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (it=lb) 4=228, 5=187.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T01	Flat Supported Gable	3	1	I50440444
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:10 2022 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-9=-58, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-9=-58
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-9=-48, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-9=-48
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-9=-36, 4-6=-20
Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-9=-36, 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-9=-36, 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-9=-36, 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-9=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-9=-60, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-60

Building 2

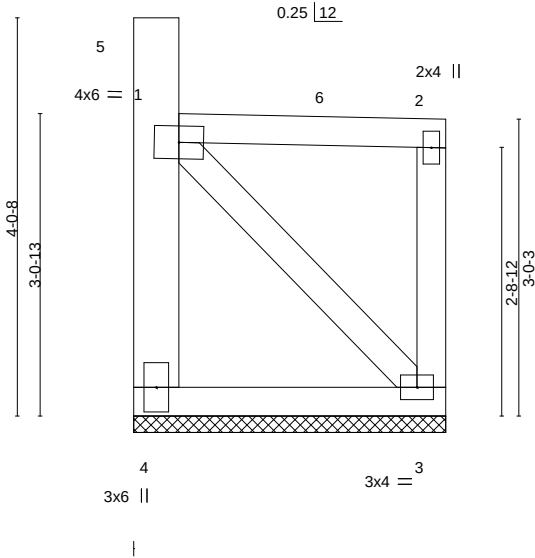
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T02	Roof Special Supported Gable	6	1	I50440445

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:7aJbUL?xQxY50gva_Jb6JFzkpl-xOXIC9qegWxQP1Le6xKNXMAXMeuJ0W5hFs8_5WzhuDY
3-2-0
3-2-0

Scale = 1:23.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 20 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 4-5: 2x6 SPF 1650F 1.5E	

REACTIONS. (size) 4=3-2-0, 3=3-2-0
Max Horz 4=-140(LC 10)
Max Uplift 4=-100(LC 10), 3=-112(LC 11)
Max Grav 4=160(LC 26), 3=172(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-132/435
BOT CHORD 3-4=-271/336
WEBS 1-3=-375/331

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=112.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard



February 25,2022

Continued on page 2

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

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T02	Roof Special Supported Gable	6	1	IS0440445
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:11 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-xOXIC9qegWxQP1Le6xKNXMAXMeuJ0W5hFs8_5WzhuDY

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-41, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-52-to-6=-41
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-47-to-6=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-40-to-6=-28
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T03	Roof Special Supported Gable	8	1	I50440446
					Job Reference (optional)

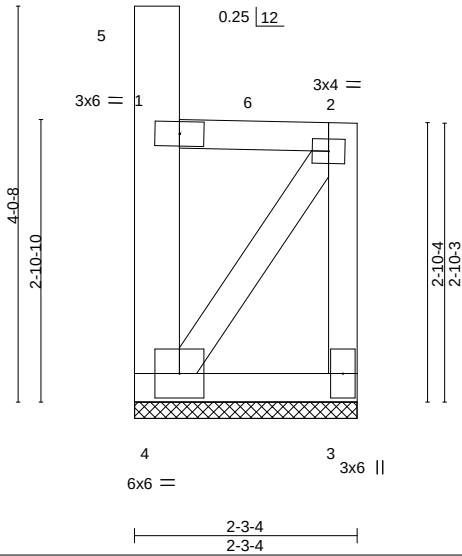
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:11 2022 Page 1

ID:7aJbUL?xQxY50gva_Jb6JFzkpl-xOXIC9qegWxQP1Le6xKNXMAYDevE0WuhFs8_5WzhuDY

2-3-4
2-3-4

Scale = 1:23.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 17 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 4-5: 2x6 SPF 1650F 1.5E	

REACTIONS. (size) 4=2-3-4, 3=2-3-4
Max Horz 4=-143(LC 10)
Max Uplift 4=-152(LC 10), 3=-165(LC 11)
Max Grav 4=191(LC 13), 3=198(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-360/401
WEBS 2-4=-391/514

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=152, 3=165.
 - n/a
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



February 25,2022

Continued on page 2

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

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T03	Roof Special Supported Gable	8	1	IS0440446
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:12 2022 Page 2
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-Pb57QVqGRq3G1Awqferc3Zjjz2FTly8qUWtXdyzhuDX

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
- Vert: 2-6=-48, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-63-to-6=-48
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-6=-60, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-6=-60
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-6=-50, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-6=-50
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-6=-41, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-56-to-6=-41
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 2-6=-20, 3-4=-40
- Trapezoidal Loads (plf)
- Vert: 1=-35-to-6=-20
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=98, 3-4=-12
- Horz: 1-4=27, 1-5=139, 1-2=110, 2-3=52
- Trapezoidal Loads (plf)
- Vert: 1=83-to-6=98
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=98, 3-4=-12
- Horz: 1-4=-52, 1-5=-80, 1-2=110, 2-3=-27
- Trapezoidal Loads (plf)
- Vert: 1=83-to-6=98
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-36, 3-4=-20
- Horz: 1-4=-40, 1-5=56, 1-2=-16, 2-3=-39
- Trapezoidal Loads (plf)
- Vert: 1=-51-to-6=-36
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-36, 3-4=-20
- Horz: 1-4=39, 1-5=-80, 1-2=-16, 2-3=40
- Trapezoidal Loads (plf)
- Vert: 1=-51-to-6=-36
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=6, 3-4=-12
- Horz: 1-4=12, 1-5=50, 1-2=18, 2-3=18
- Trapezoidal Loads (plf)
- Vert: 1=-9-to-6=6
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=16, 3-4=-12
- Horz: 1-4=-18, 1-5=-50, 1-2=28, 2-3=-12
- Trapezoidal Loads (plf)
- Vert: 1=1-to-6=16
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-14, 3-4=-20
- Horz: 1-4=24, 1-5=50, 1-2=6, 2-3=6
- Trapezoidal Loads (plf)
- Vert: 1=-29-to-6=-14
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-3, 3-4=-20
- Horz: 1-4=-6, 1-5=-50, 1-2=17, 2-3=-24
- Trapezoidal Loads (plf)
- Vert: 1=-18-to-6=-3
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T03	Roof Special Supported Gable	8	1	I50440446
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:12 2022 Page 3
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-Pb57QVqGRq3G1Awqferc3Zjjz2FTly8qUWtXdyzhuDX

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=7, 1-5=-33, 1-2=18, 2-3=15
- Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=-15, 1-5=-33, 1-2=28, 2-3=-7
- Trapezoidal Loads (plf)
Vert: 1=1-to-6=16
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=7, 1-5=-33, 1-2=18, 2-3=15
- Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=-15, 1-5=-33, 1-2=28, 2-3=-7
- Trapezoidal Loads (plf)
Vert: 1=1-to-6=16
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-14, 3-4=-20
Horz: 1-4=19, 1-5=-33, 1-2=6, 2-3=4
- Trapezoidal Loads (plf)
Vert: 1=-29-to-6=-14
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-3, 3-4=-20
Horz: 1-4=-4, 1-5=-33, 1-2=17, 2-3=-19
- Trapezoidal Loads (plf)
Vert: 1=-18-to-6=-3
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-20
- Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
- Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
- Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
- Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
- Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-45, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
- Trapezoidal Loads (plf)
Vert: 1=-60-to-6=-45
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-38, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
- Trapezoidal Loads (plf)
Vert: 1=-53-to-6=-38

Continued on page 4

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T03	Roof Special Supported Gable	8	1	IS0440446
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:12 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-Pb57QVqGRq3G1Awqferc3Zjjz2FTly8qUWtXdyzhuDX

LOAD CASE(S) Standard

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)
Vert: 2-6=-45, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3

Trapezoidal Loads (plf)
Vert: 1=-60-to-6=-45

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)
Vert: 2-6=-38, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14

Trapezoidal Loads (plf)
Vert: 1=-53-to-6=-38

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-12
Horz: 1-4=-16, 1-5=33, 1-2=-16, 2-3=-16
Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28

31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)
Vert: 2-6=4, 3-4=-12
Horz: 1-4=16, 1-5=33, 1-2=16, 2-3=16
Trapezoidal Loads (plf)
Vert: 1=-11-to-6=4

32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20

33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60

34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20

35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

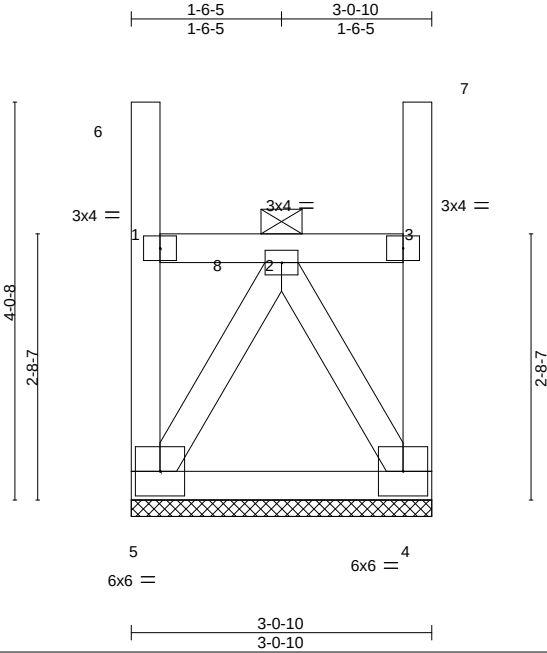
Uniform Loads (plf)
Vert: 2-6=-50, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-6=-50

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T04	Flat Supported Gable	2	1	I50440447
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:12 2022 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.27	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Horz(CT)	-0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P					Weight: 20 lb	FT = 20%
BCDL 10.0	Code IBC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-6, 1-3, 3-7, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 5=3-0-10, 4=3-0-10
Max Horz 5=-196(LC 10)
Max Uplift 5=-179(LC 10), 4=-179(LC 11)
Max Grav 5=211(LC 22), 4=209(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-262/204, 2-3=-261/204
BOT CHORD 4-5=-269/243
WEBS 2-5=-415/526, 2-4=-411/522

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=179, 4=179.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 25,2022

Continued on page 2

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0440447
J220197-G02R	T04	Flat Supported Gable	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 3-8=-58, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-73-to-8=-58
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 3-8=-48, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-8=-48
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 3-8=-36, 4-5=-20
- Horz: 1-5=18, 1-6=37, 3-4=5, 3-7=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-8=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 3-8=-36, 4-5=-20
- Horz: 1-5=-5, 1-6=-25, 3-4=-18, 3-7=-37
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-8=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 3-8=-36, 4-5=-20
- Horz: 1-5=14, 1-6=-25, 3-4=3, 3-7=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-8=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 3-8=-36, 4-5=-20
- Horz: 1-5=-3, 1-6=-25, 3-4=-14, 3-7=25
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-8=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 3-8=-60, 4-5=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-8=-60



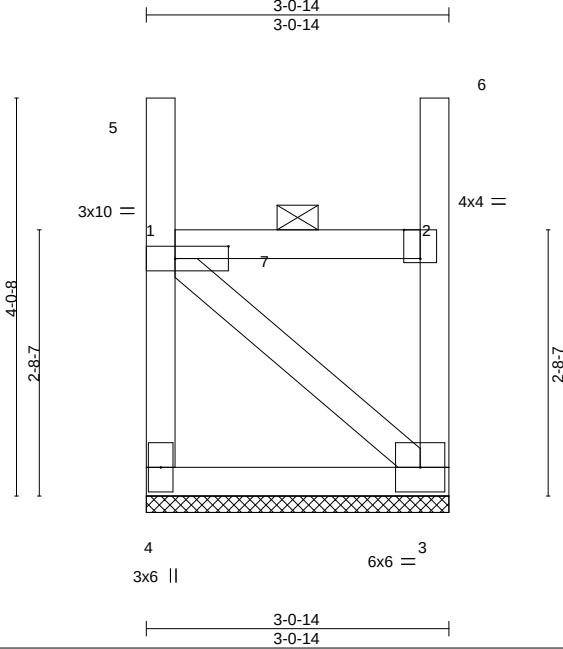
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T05	Flat Supported Gable	3	1	150440448
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

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Scale = 1:23.4

Plate Offsets (X,Y)-- [1:0-6-8,0-1-8], [2:0-2-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a - n/a	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a - n/a		
TCDL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00 3 n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P				Weight: 19 lb	FT = 20%
BCDL	10.0								

LUMBER-					BRACING-				
TOP CHORD	2x4 SPF No.2				TOP CHORD	2-0-0 oc purlins: 1-5, 1-2, 2-6, except end verticals.			
BOT CHORD	2x4 SPF No.2				BOT CHORD	Rigid ceiling directly applied or 8-6-2 oc bracing.			
WEBS	2x4 SPF No.2								

REACTIONS. (size) 4=3-0-14, 3=3-0-14
Max Horz 4=-196(LC 10)
Max Uplift 4=-177(LC 10), 3=-177(LC 11)
Max Grav 4=212(LC 22), 3=208(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-313/587, 1-2=-252/212
BOT CHORD 3-4=-483/494
WEBS 1-3=-613/614

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 4=177, 3=177.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
Continued on page 2



February 25,2022

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

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T05	Flat Supported Gable	3	1	I50440448
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

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LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-58, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-7=-58
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-7=-48
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-36, 3-4=-20
Horz: 1-4=18, 1-5=37, 2-3=5, 2-6=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-7=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-36, 3-4=-20
Horz: 1-4=-5, 1-5=-25, 2-3=-18, 2-6=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-7=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-36, 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3, 2-6=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-7=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-36, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14, 2-6=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-7=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-7=-60

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0440449
J220197-G02F	T10	JACK-CLOSED GIRDER	4	2	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Feb 25 03:50:12 2022 Page 1
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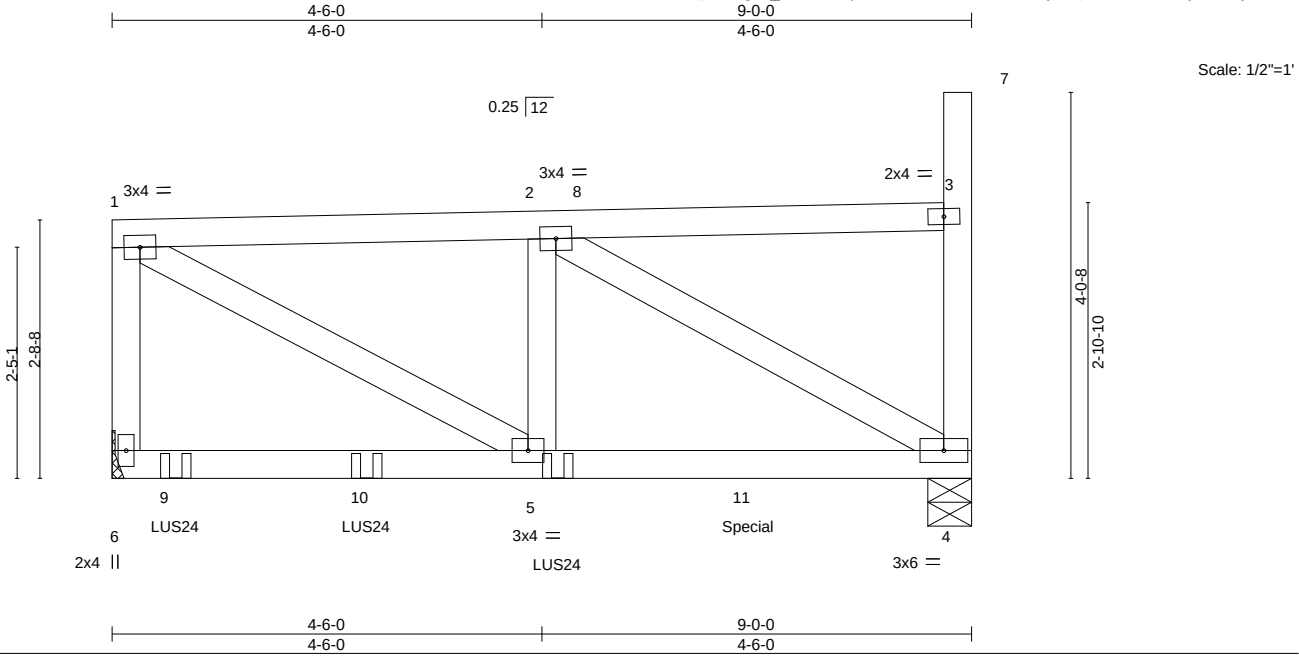


Plate Offsets (X,Y)--		[3:0-0-0,0-0-0], [4:0-0-0,0-0-0]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	NO
BCLL	0.0 *	Code	IBC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.22
		BC	0.80
		WB	0.17
		Matrix-MS	
		DEFL.	
		Vert(LL)	0.10 4-5 >999 240
		Vert(CT)	-0.10 4-5 >999 180
		Horz(CT)	0.00 4 n/a n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 80 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS.	(lb/size) 6=1066/Mechanical, 4=918/0-5-8	PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED
	Max Horz 6=143(LC 11)	FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED FOR
	Max Uplift 6=200(LC 10), 4=224(LC 11)	LOADS REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE
	Max Grav 6=1140(LC 29), 4=1032(LC 29)	ATTACHED WITH A MINIMUM OF 0.148"x 3" NAILS PER HANGER
		MANUFACTURER SPECIFICATIONS.

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-6=-797/540, 1-2=-1200/666
BOT CHORD	6-9=-286/198, 9-10=-286/198, 5-10=-286/198, 5-11=-738/1199, 4-11=-738/1199
WEBS	1-5=-790/1371, 2-5=-129/403, 2-4=-1350/812

- NOTES-**
- 1) n/a
 - 2) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 4) Unbalanced roof live loads have been considered for this design.
 - 5) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 6) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 7) Provide adequate drainage to prevent water ponding.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Refer to girder(s) for truss to truss connections.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 6 and 224 lb uplift at joint 4.
 - 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 13) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-8-0 from the left end to 4-8-0 to connect truss(es) to front face of bottom chord.



February 25,2022

Continued on page 2	
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Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02F	T10	JACK-CLOSED GIRDER	4	2	IS0440449

Mill Creek Truss, LLC, Halstead, KS - 67056,

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- NOTES-**
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 739 lb down and 482 lb up at 6-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-48, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-317(F) 9=-302(F) 10=-298(F) 11=-448(F)
Trapezoidal Loads (plf)
Vert: 8=-48-to-3=-63
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-41, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-272(F) 9=-263(F) 10=-259(F) 11=-402(F)
Trapezoidal Loads (plf)
Vert: 8=-41-to-3=-52
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-28, 4-6=-20
Horz: 1-6=18, 1-3=-12, 3-4=5, 3-7=37
Concentrated Loads (lb)
Vert: 5=40(F) 9=31(F) 10=35(F) 11=-678(F)
Trapezoidal Loads (plf)
Vert: 8=-28-to-3=-40
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-36, 4-6=-20
Horz: 1-6=-5, 1-3=-5, 3-4=-18, 3-7=-37
Concentrated Loads (lb)
Vert: 5=40(F) 9=31(F) 10=35(F) 11=-431(F)
Trapezoidal Loads (plf)
Vert: 8=-36-to-3=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-28, 4-6=-20
Horz: 1-6=14, 1-3=-12, 3-4=3, 3-7=25
Concentrated Loads (lb)
Vert: 5=40(F) 9=31(F) 10=35(F) 11=-596(F)
Trapezoidal Loads (plf)
Vert: 8=-28-to-3=-40
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-36, 4-6=-20
Horz: 1-6=-3, 1-3=-5, 3-4=-14, 3-7=25
Concentrated Loads (lb)
Vert: 5=40(F) 9=31(F) 10=35(F) 11=-596(F)
Trapezoidal Loads (plf)
Vert: 8=-36-to-3=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-317(F) 9=-302(F) 10=-298(F) 11=-529(F)
Trapezoidal Loads (plf)
Vert: 8=-60-to-3=-75

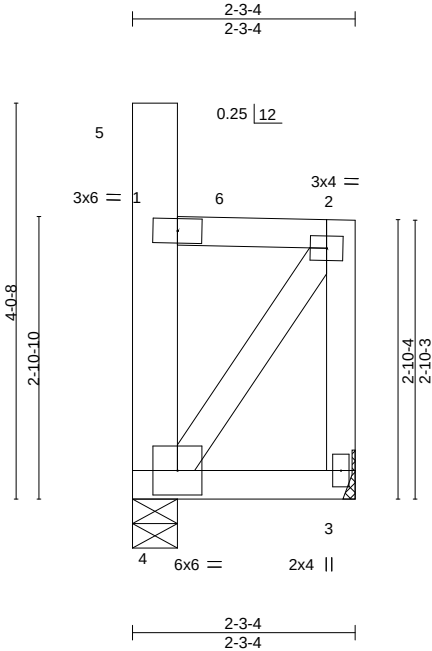


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T47	Roof Special	30	1	IS0440450
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:15 2022 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.12	Vert(LL)	-0.00	4	>999	MT20	197/144
Snow (Pl/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	-0.00	3-4	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 17 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 4-5: 2x6 SPF 1650F 1.5E	

REACTIONS. (size) 3=Mechanical, 4=0-5-8
Max Horz 4=-143(LC 10)
Max Uplift 3=-166(LC 11), 4=-159(LC 10)
Max Grav 3=197(LC 12), 4=184(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-342/363
WEBS 2-4=-344/492

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=166, 4=159.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48
- Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



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Continued on page 2

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

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T47	Roof Special	30	1	ISO440450
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:15 2022 Page 2
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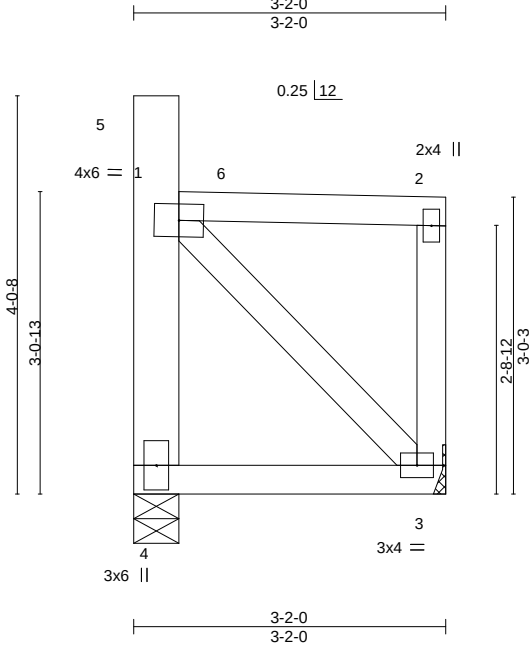
- LOAD CASE(S)** Standard
- Uniform Loads (plf)
- Vert: 2-6=-41, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-52-to-6=-41
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-36, 3-4=-20
- Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-6=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-28, 3-4=-20
- Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
- Trapezoidal Loads (plf)
- Vert: 1=-40-to-6=-28
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-36, 3-4=-20
- Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
- Trapezoidal Loads (plf)
- Vert: 1=-47-to-6=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-28, 3-4=-20
- Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
- Trapezoidal Loads (plf)
- Vert: 1=-40-to-6=-28
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-6=-60, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-6=-60

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T48	Roof Special	18	1	IS0440451
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:16 2022 Page 1
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Scale = 1:23.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.00	3-4	>999	240	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.01	3-4	>999	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.09	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-MP						Weight: 20 lb	FT = 20%
BCDL 10.0										

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 4-5: 2x6 SPF 1650F 1.5E	

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-140(LC 10)
Max Uplift 4=-95(LC 10), 3=-112(LC 11)
Max Grav 4=165(LC 26), 3=173(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-137/416
BOT CHORD 3-4=-243/309
WEBS 1-3=-357/292

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=112.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48



February 25,2022

Continued on page 2

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T48	Roof Special	18	1	IS0440451
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:16 2022 Page 2
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LOAD CASE(S) Standard

- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-50, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-6=-50
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-41, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-56-to-6=-41
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=98, 3-4=-12
Horz: 1-4=27, 1-5=139, 1-2=110, 2-3=42
Trapezoidal Loads (plf)
Vert: 1=83-to-6=98
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=98, 3-4=-12
Horz: 1-4=-42, 1-5=-70, 1-2=110, 2-3=-27
Trapezoidal Loads (plf)
Vert: 1=83-to-6=98
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=-30, 1-5=46, 1-2=-16, 2-3=-39
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=39, 1-5=-70, 1-2=-16, 2-3=30
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=12, 1-5=50, 1-2=18, 2-3=18
Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=-18, 1-5=-50, 1-2=28, 2-3=-12
Trapezoidal Loads (plf)
Vert: 1=1-to-6=16
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-14, 3-4=-20
Horz: 1-4=24, 1-5=50, 1-2=6, 2-3=6
Trapezoidal Loads (plf)
Vert: 1=-29-to-6=-14
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-3, 3-4=-20
Horz: 1-4=-6, 1-5=-50, 1-2=17, 2-3=-24
Trapezoidal Loads (plf)
Vert: 1=-18-to-6=-3
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=7, 1-5=-33, 1-2=18, 2-3=15
Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T48	Roof Special	18	1	IS0440451
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:16 2022 Page 3
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LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=-15, 1-5=-33, 1-2=28, 2-3=-7
- Trapezoidal Loads (plf)
Vert: 1=1-to-6=16
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=7, 1-5=-33, 1-2=18, 2-3=15
- Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=-15, 1-5=-33, 1-2=28, 2-3=-7
- Trapezoidal Loads (plf)
Vert: 1=1-to-6=16
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-14, 3-4=-20
Horz: 1-4=19, 1-5=-33, 1-2=6, 2-3=4
- Trapezoidal Loads (plf)
Vert: 1=-29-to-6=-14
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-3, 3-4=-20
Horz: 1-4=-4, 1-5=-33, 1-2=17, 2-3=-19
- Trapezoidal Loads (plf)
Vert: 1=-18-to-6=-3
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-20
- Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
- Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
- Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
- Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-28, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
- Trapezoidal Loads (plf)
Vert: 1=-43-to-6=-28
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-45, 3-4=-20
Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
- Trapezoidal Loads (plf)
Vert: 1=-60-to-6=-45
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-38, 3-4=-20
Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
- Trapezoidal Loads (plf)
Vert: 1=-53-to-6=-38
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 2-6=-45, 3-4=-20
Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
- Trapezoidal Loads (plf)
Vert: 1=-60-to-6=-45

Continued on page 4

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	T48	Roof Special	18	1	ISO440451
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:16 2022 Page 4
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-IMKdFsumU3aiVoDcuUwYEPuOafbahmPQO8rlmkzhuDT

LOAD CASE(S) Standard

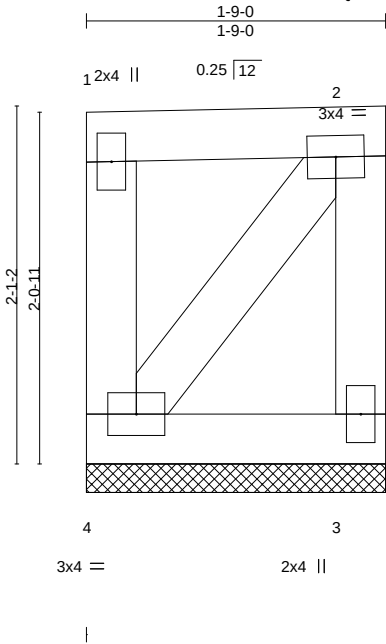
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-38, 3-4=-20
- Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-6=-38
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-6=-60, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-6=-60
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-28, 3-4=-12
- Horz: 1-4=-16, 1-5=33, 1-2=-16, 2-3=-16
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-6=-28
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=4, 3-4=-12
- Horz: 1-4=16, 1-5=33, 1-2=16, 2-3=16
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-6=4
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-6=-20, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-35-to-6=-20
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-6=-60, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-6=-60
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-6=-20, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-35-to-6=-20
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-6=-50, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-6=-50

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE01	Blocking Supported	16	1	I50440452

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:17 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-mYu0TCuPFMiZ7yooSCRnmdQbv3yvQEjZdobIJAzhuDS



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 10 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-9-0, 3=1-9-0
Max Horz 4=55(LC 13)
Max Uplift 4=-35(LC 10), 3=-29(LC 11)
Max Grav 4=73(LC 26), 3=66(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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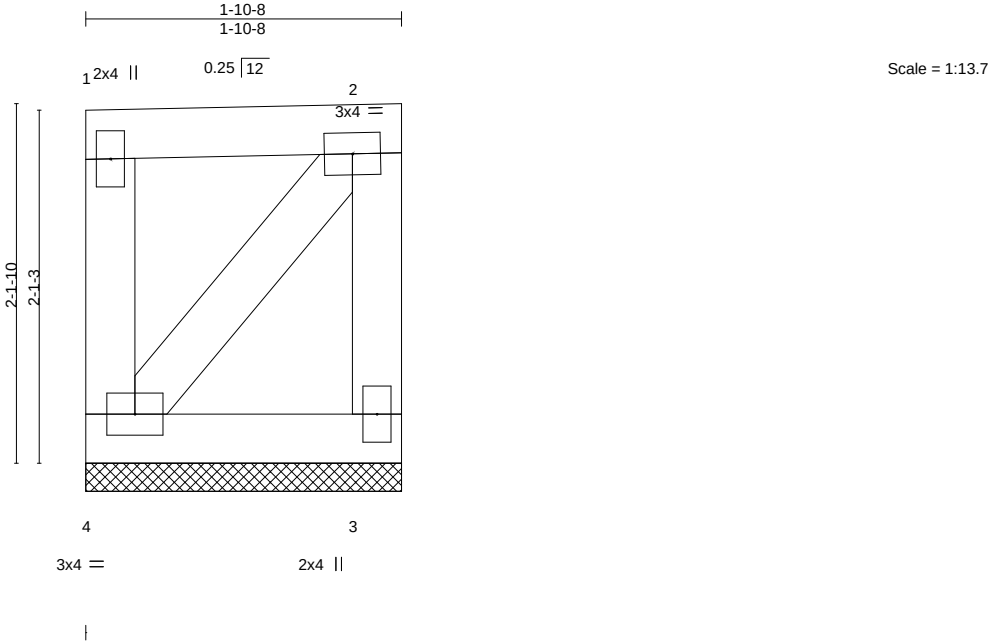


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE02	Blocking Supported	16	1	I50440453
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8,430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:18 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-ElSOgYv10gqQl5N_0vy0JqzmXSI59hzjsSKsrczhuDR



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 10 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=56(LC 13)
Max Uplift 4=-34(LC 10), 3=-28(LC 11)
Max Grav 4=76(LC 26), 3=69(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Chesterfield, MO 63017

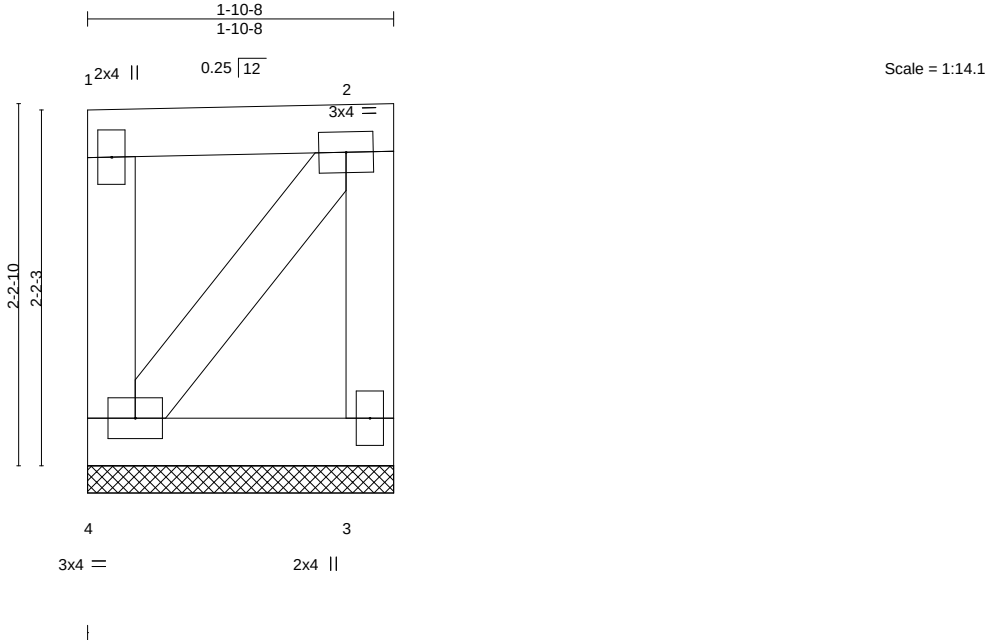
Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE04	Blocking Supported	16	1	IS0440455

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:19 2022 Page 1

ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-ix0muuwn_yHMFyAadTFr2WxHseKu8Bs564PN2zhuDQ



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P					Weight: 10 lb	FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=58(LC 13)
Max Uplift 4=-37(LC 10), 3=-31(LC 11)
Max Grav 4=78(LC 26), 3=71(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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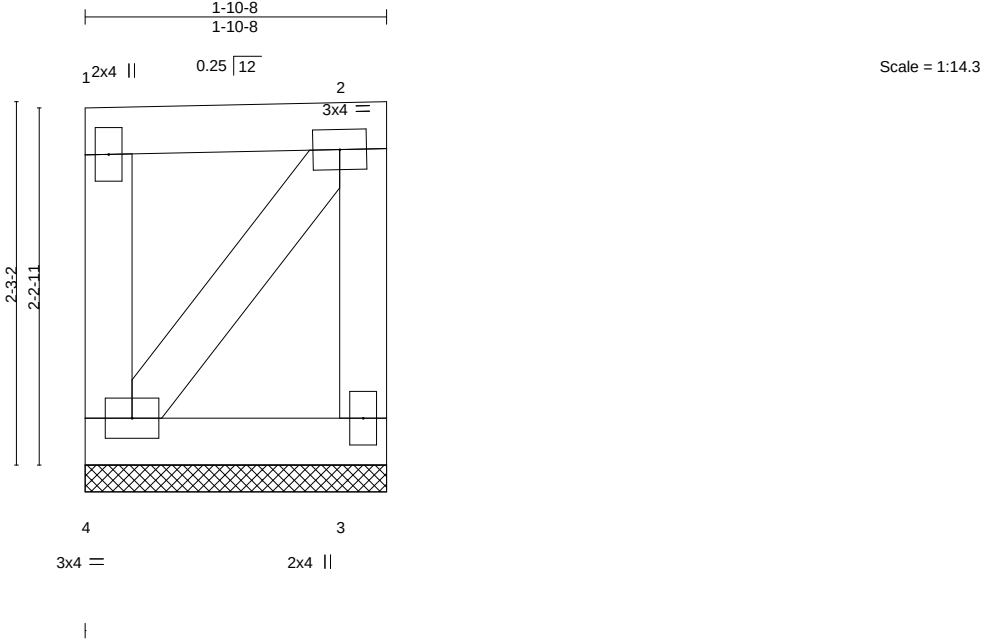
MiTek

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE05	Blocking Supported	16	1	I50440456
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:20 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-A7a85ExHYH48_PXN7K_UOF251G_ZdbQ0JmpyvVzhuDP



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P					Weight: 10 lb	FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=60(LC 11)
Max Uplift 4=-39(LC 10), 3=-32(LC 11)
Max Grav 4=80(LC 26), 3=72(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

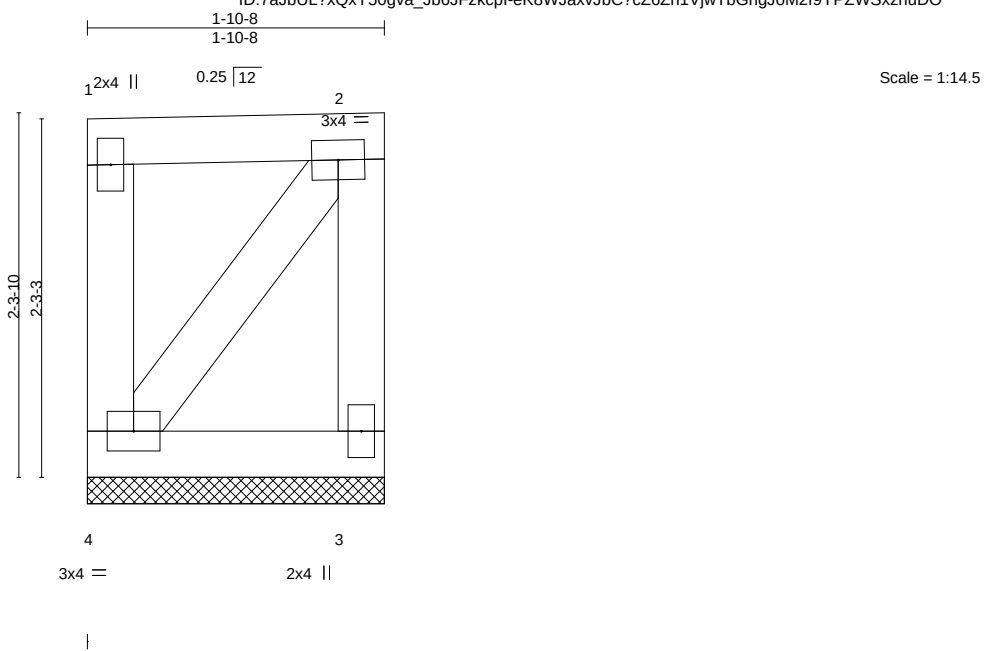
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE06	Blocking Supported	16	1	IS0440457
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:21 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-eK8WJaxvJbC?cZ6Zh1VjwTbGngJoM2f9YPZWSxzhDO



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P						Weight: 11 lb	FT = 20%
BCDL 10.0										

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=61(LC 13)
Max Uplift 4=-40(LC 10), 3=-34(LC 11)
Max Grav 4=81(LC 26), 3=73(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

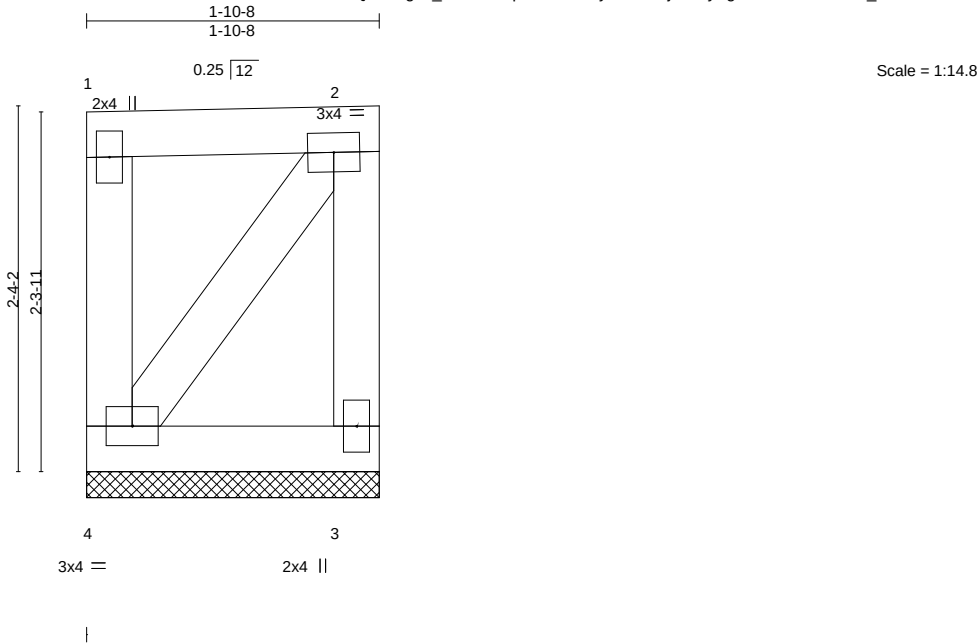
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE07	Blocking Supported	16	1	IS0440458
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8,430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:22 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-6WhvWvyX4vksDjhlFIoyTg8RW4f15VuJn3l3_NzhuDN



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=62(LC 13)
Max Uplift 4=-42(LC 10), 3=-35(LC 11)
Max Grav 4=82(LC 26), 3=74(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

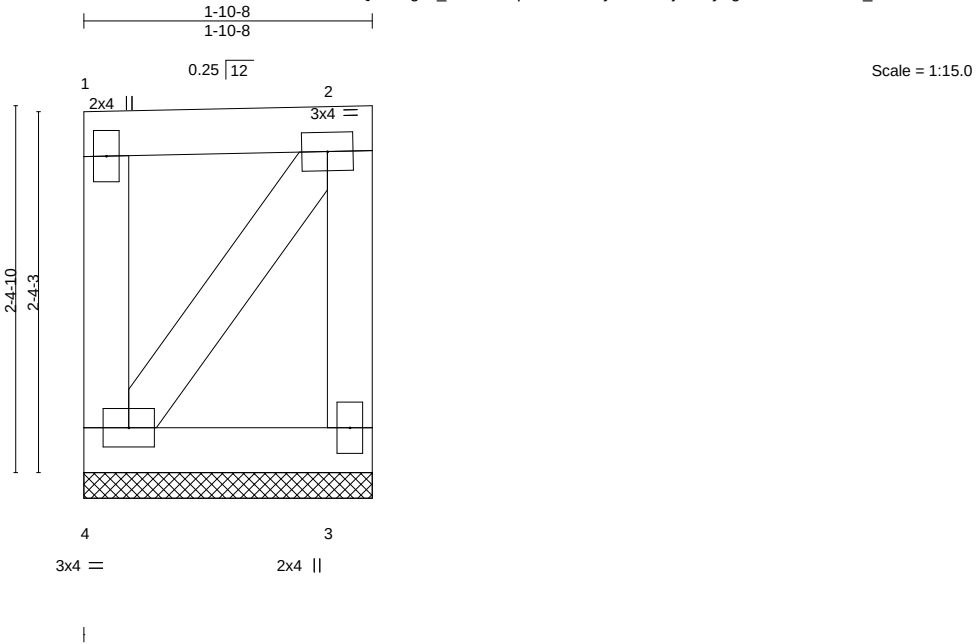
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE08	Blocking Supported	16	1	I50440459
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8,430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:22 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-6WhvWvyX4vKsDjhFI0yTg8RU4f15VtJn3I3_NzhuDN



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=63(LC 13)
Max Uplift 4=-44(LC 10), 3=-37(LC 11)
Max Grav 4=83(LC 26), 3=76(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

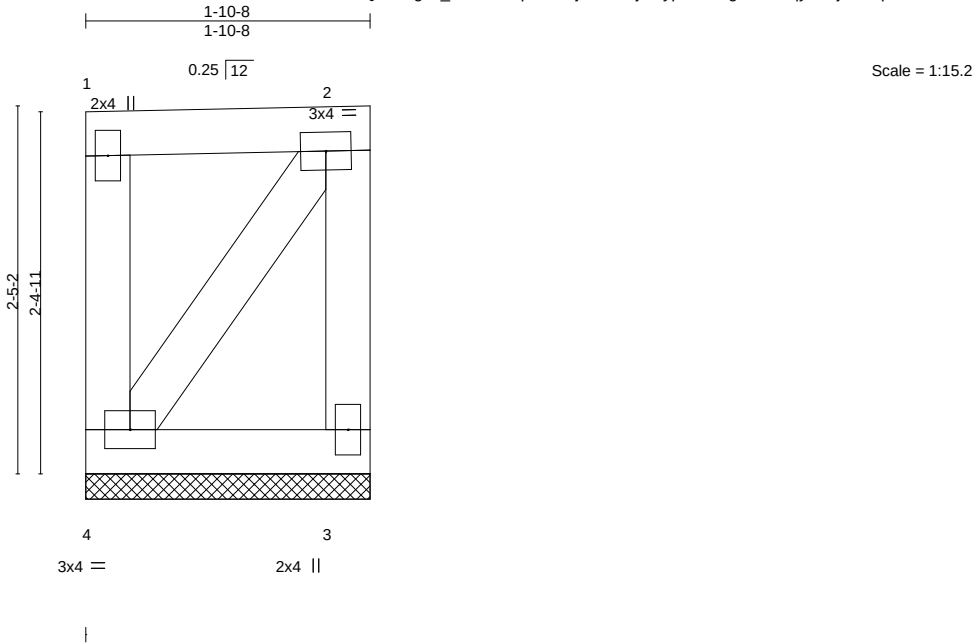
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE09	Blocking Supported	16	1	IS0440460
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8,430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:23 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-biFHjFz9rCSjrtGypSYB0tgcBT?Gqy6S?j2dWqzhuDM



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P					Weight: 11 lb	FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=65(LC 11)
Max Uplift 4=-45(LC 10), 3=-39(LC 11)
Max Grav 4=84(LC 26), 3=77(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

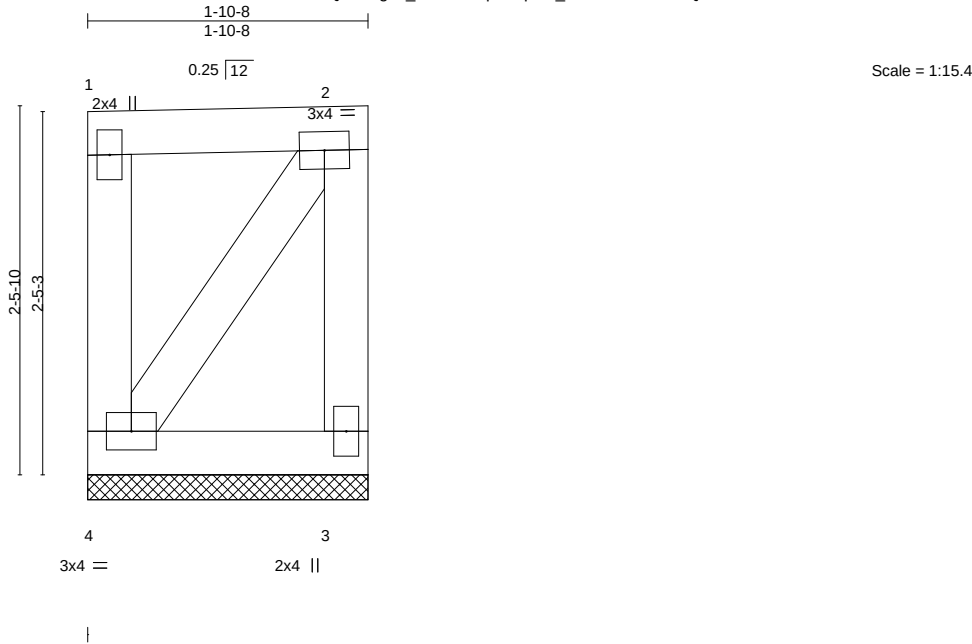
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE10	Blocking Supported	16	1	I50440461
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:24 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpI-3upfxb_ocWaZT0r8MA3QY5DmvtLVZPLbENnA3GzhuDL



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=66(LC 11)
Max Uplift 4=-47(LC 10), 3=-41(LC 11)
Max Grav 4=86(LC 26), 3=78(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

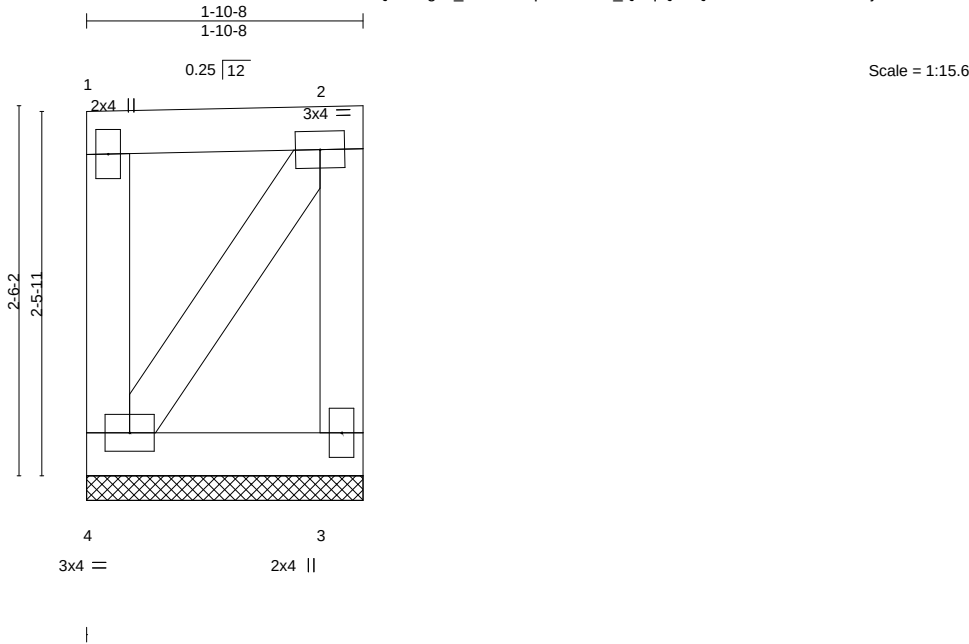
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE11	Blocking Supported	16	1	IS0440462
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:25 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-X5N18x_QNqiQ4AQKwtat5IlxdHhkIsaT1XjbizhuDK



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=67(LC 13)
Max Uplift 4=-49(LC 10), 3=-42(LC 11)
Max Grav 4=87(LC 26), 3=79(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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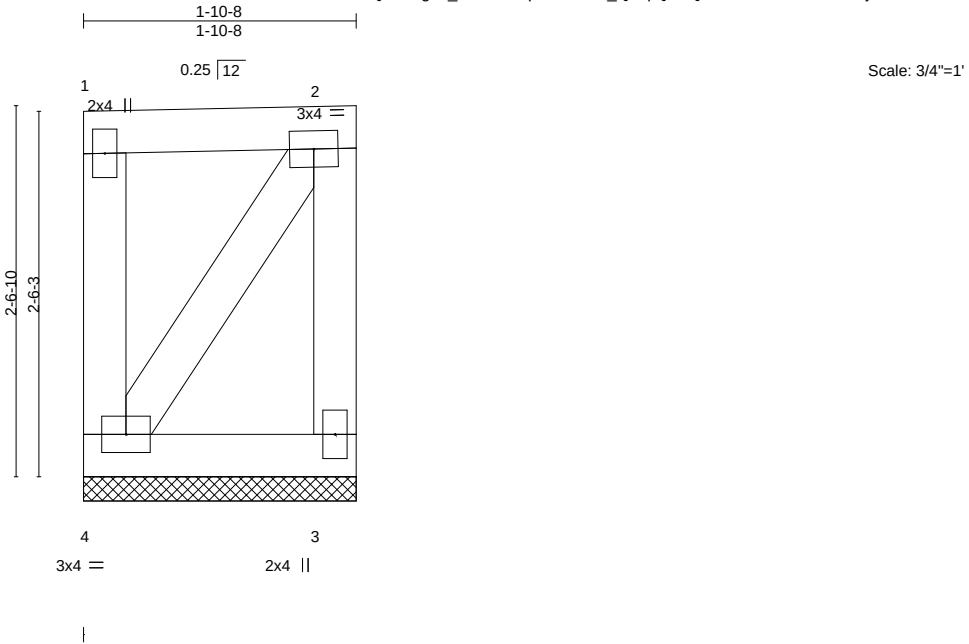


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE12	Blocking Supported	16	1	IS0440463
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8,430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:25 2022 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=69(LC 13)
Max Uplift 4=-50(LC 10), 3=-44(LC 11)
Max Grav 4=88(LC 26), 3=81(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



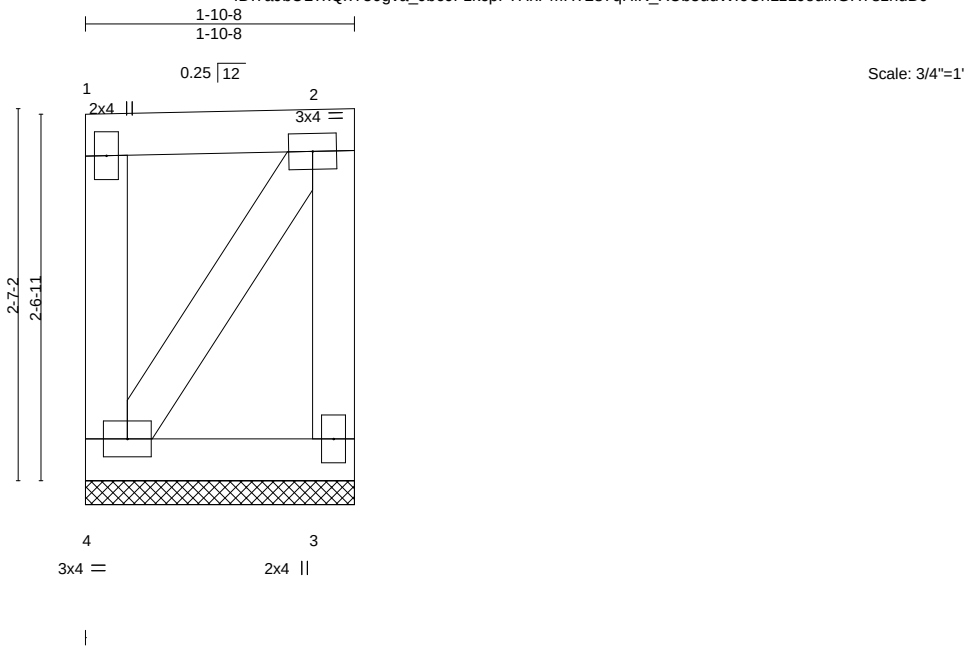
February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE13	Blocking Supported	16	1	IS0440464
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8,430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:26 2022 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=70(LC 13)
Max Uplift 4=-52(LC 10), 3=-46(LC 11)
Max Grav 4=90(LC 26), 3=82(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

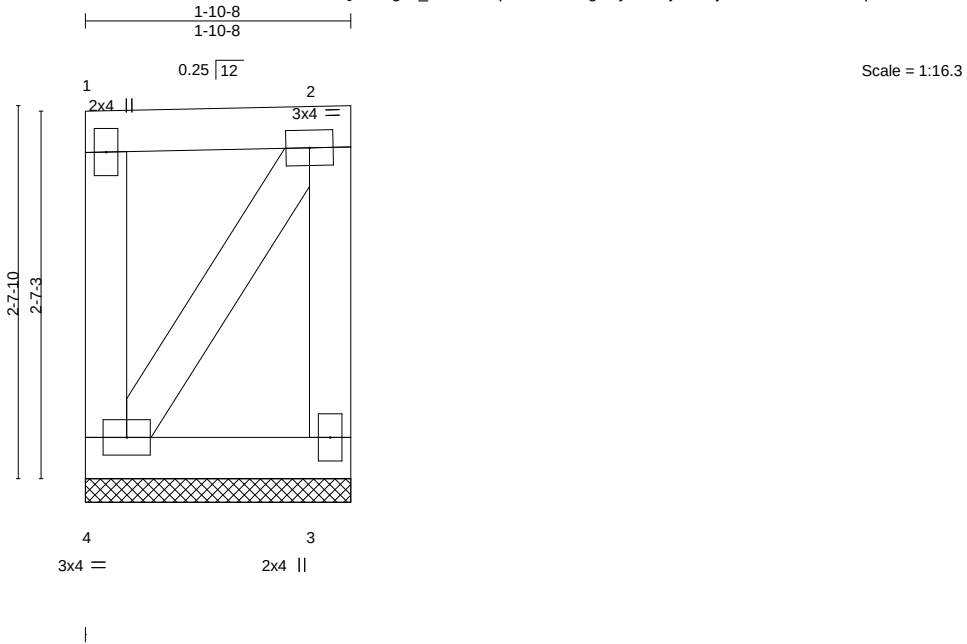


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE14	Blocking Supported	16	1	IS0440465
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:27 2022 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=71(LC 11)
Max Uplift 4=-54(LC 10), 3=-48(LC 11)
Max Grav 4=91(LC 26), 3=83(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



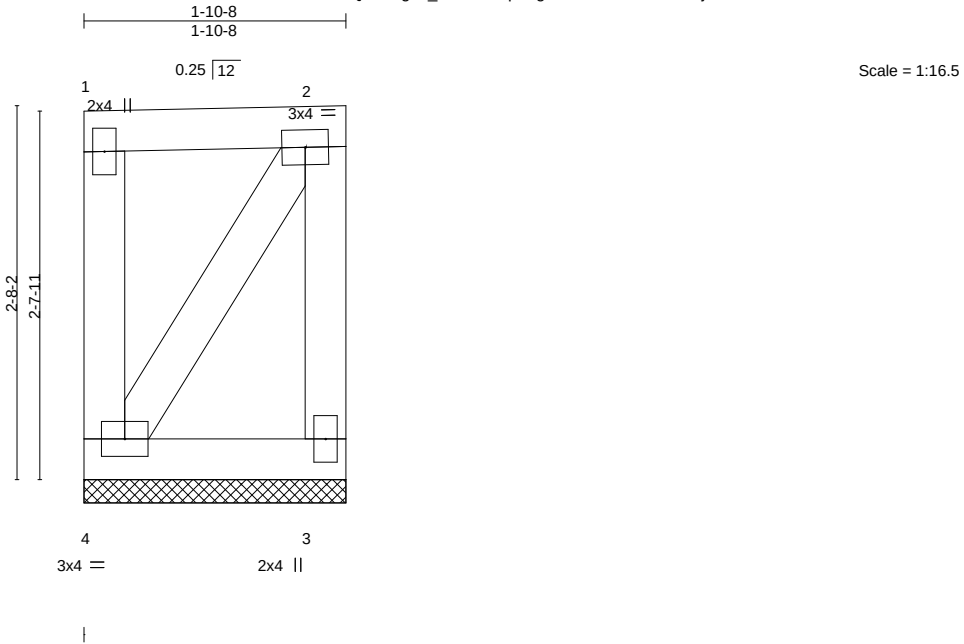
February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE15	Blocking Supported	16	1	IS0440466
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:28 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-xg3Anz1fI4?xe8vb?7MjxNScUiRVDFB9?INC1zhuDH



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=72(LC 11)
Max Uplift 4=-56(LC 10), 3=-50(LC 11)
Max Grav 4=93(LC 26), 3=85(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

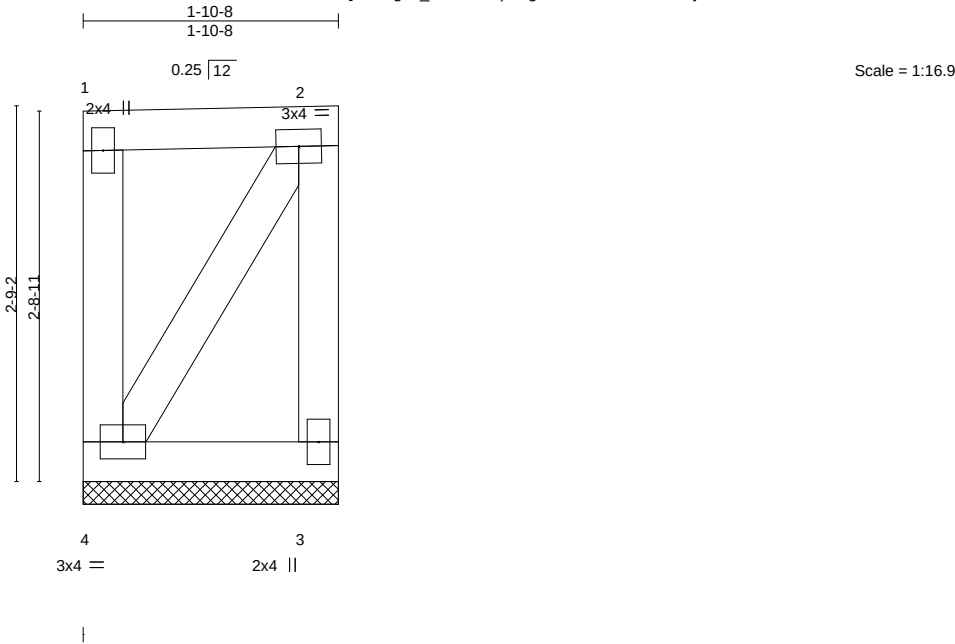


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE16	Blocking Supported	11	1	IS0440467
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:28 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-xg3Anz1IfI4?xe8vb?7MjxNSXUiRVDDb9?INC1zhuDH



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=75(LC 13)
Max Uplift 4=60(LC 10), 3=53(LC 11)
Max Grav 4=95(LC 26), 3=88(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

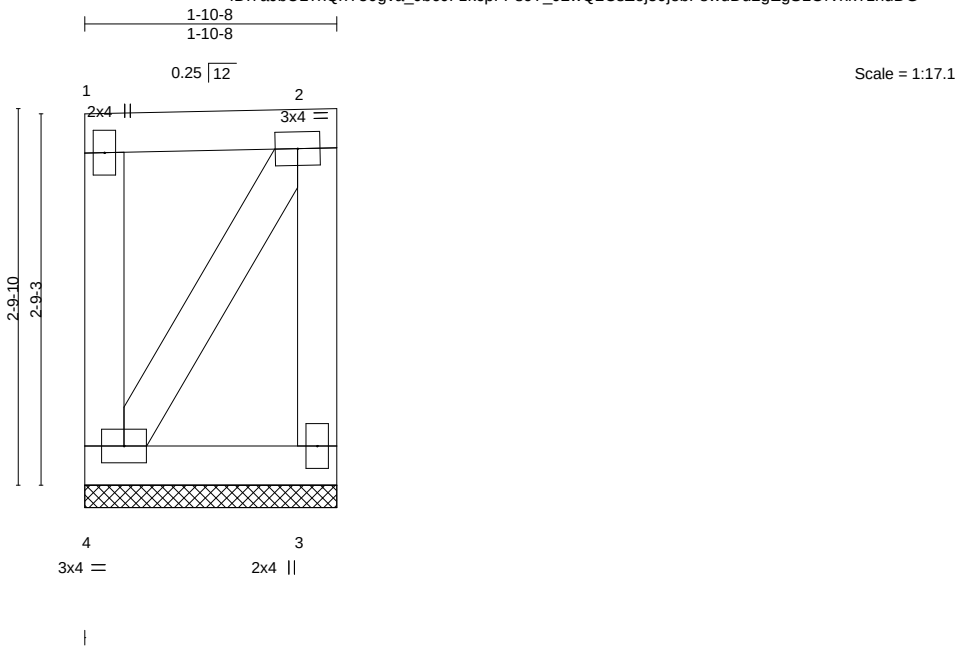
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE17	Blocking Supported	11	1	IS0440468
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:29 2022 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=76(LC 13)
Max Uplift 4=62(LC 10), 3=55(LC 11)
Max Grav 4=97(LC 26), 3=89(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

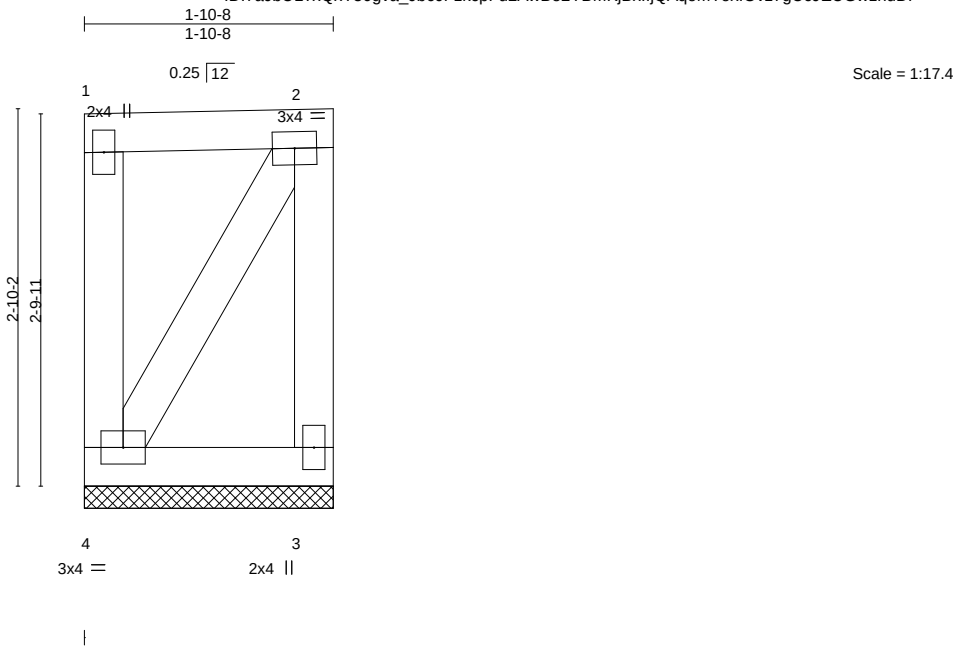
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE18	Blocking Supported	11	1	IS0440469
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:30 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-u2AwBe2YBMKjBxIijQAqoMToxlOvz7gUcJEUgWzhuDF



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=77(LC 11)
Max Uplift 4=-64(LC 10), 3=-58(LC 11)
Max Grav 4=98(LC 26), 3=91(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

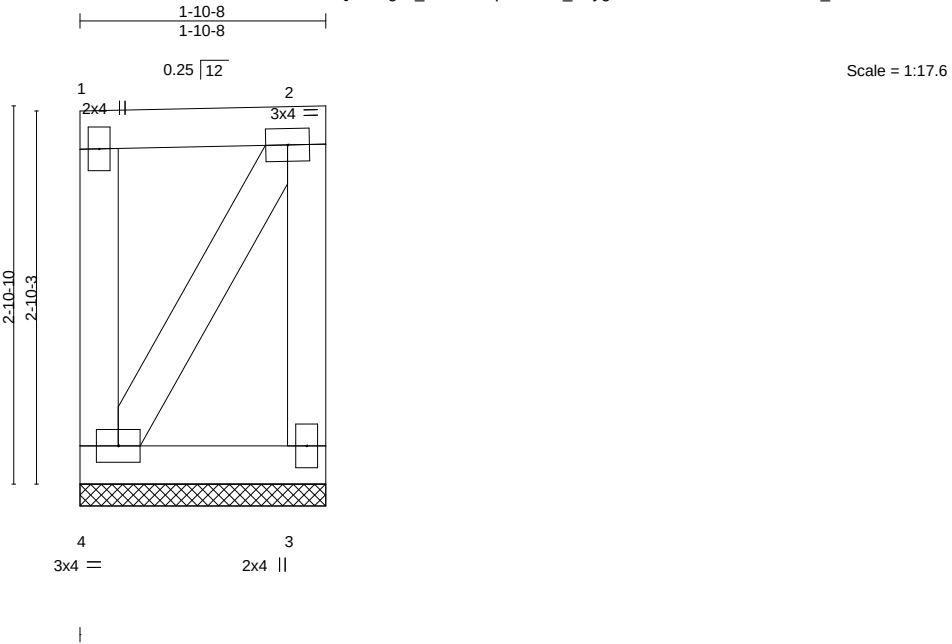
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE19	Blocking Supported	3	1	IS0440470
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:31 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-MFklP_3BygTao5tUH8h3KZ?zeik8iZvdrz_2oMzhuDE



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=79(LC 13)
Max Uplift 4=-66(LC 10), 3=-60(LC 11)
Max Grav 4=100(LC 26), 3=92(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

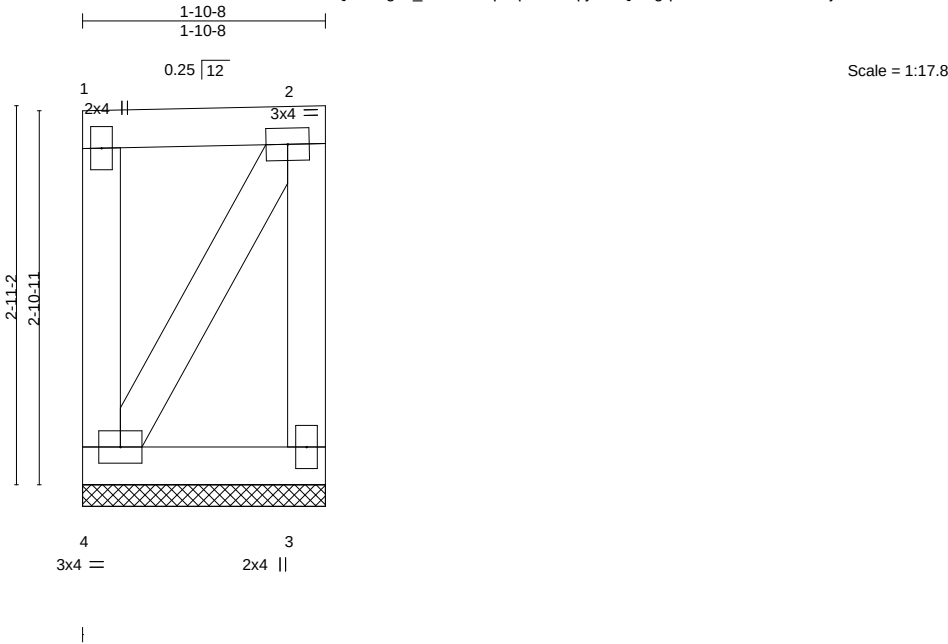
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE20	Blocking Supported	3	1	IS0440471
					Job Reference (optional)

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:32 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkpl-qRIhcK4pjzbRQFSgqrCItY8L64MR08n4djbLozhuDD



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P					Weight: 13 lb	FT = 20%
BCDL 10.0	Code IBC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=80(LC 11)
Max Uplift 4=68(LC 10), 3=62(LC 11)
Max Grav 4=102(LC 26), 3=94(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=198/252

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



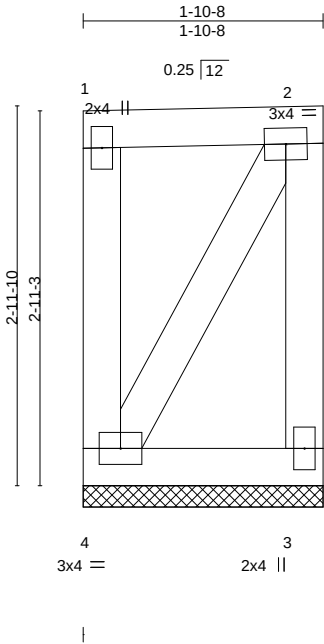
February 25,2022

Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE21	Blocking Supported	3	1	IS0440472
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:32 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpl-qRlhck4pjzbRQFSgqrCltY8l64MR07n4djbLozhuDD



Scale = 1:18.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P					Weight: 13 lb	FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=81(LC 13)
Max Uplift 4=-70(LC 10), 3=-64(LC 11)
Max Grav 4=103(LC 26), 3=95(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-204/258

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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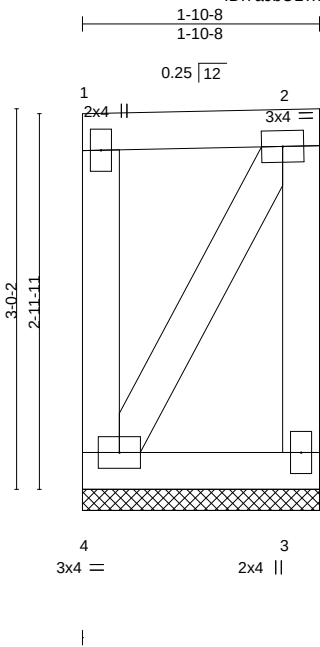


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE22	Blocking Supported	3	1	IS0440473
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:33 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-lds3qg5RUHjI2P1tOZjXQ_5J?VPbATMwJHT8tFzhuDC



Scale = 1:18.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014		Matrix-P					Weight: 13 lb	FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=82(LC 11)
Max Uplift 4=-72(LC 10), 3=-66(LC 11)
Max Grav 4=105(LC 26), 3=97(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-209/264

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



February 25,2022

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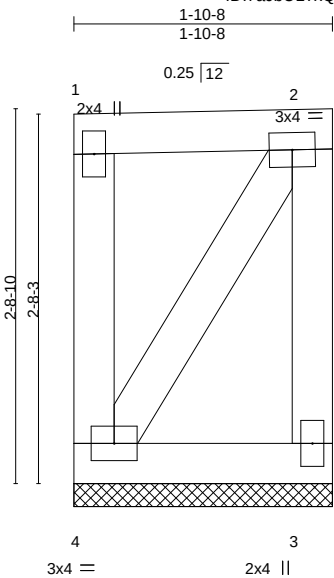


Building 2

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220197-G02R	TGE23	Blocking Supported	3	1	IS0440474

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 24 15:16:34 2022 Page 1
ID:7aJbUL?xQxY50gva_Jb6JFzkcpI-mqQR1053Fbr9fZc3yGEmyCdU3vIqvwj4XxCiPhzhuDB



Scale = 1:16.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=74(LC 11)
Max Uplift 4=-58(LC 10), 3=-52(LC 11)
Max Grav 4=94(LC 26), 3=86(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



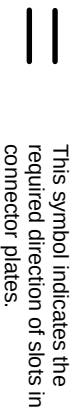
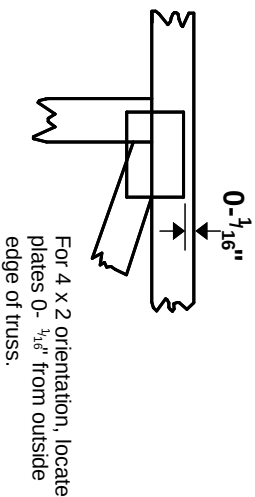
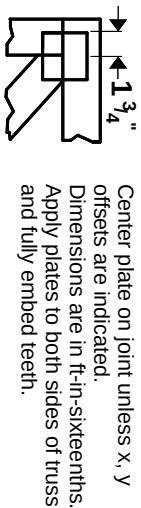
February 25,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

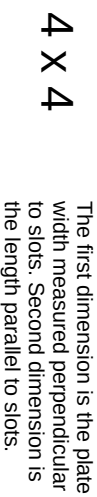
Symbols

PLATE LOCATION AND ORIENTATION

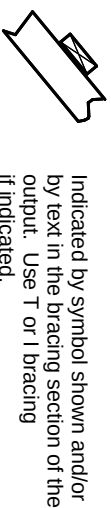


* Plate location details available in **MiTek 20120** software or upon request.

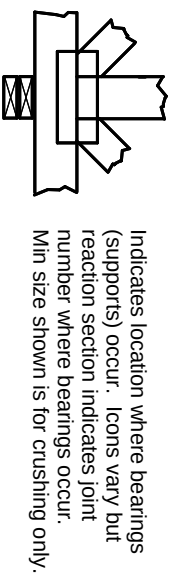
PLATE SIZE



LATERAL BRACING LOCATION

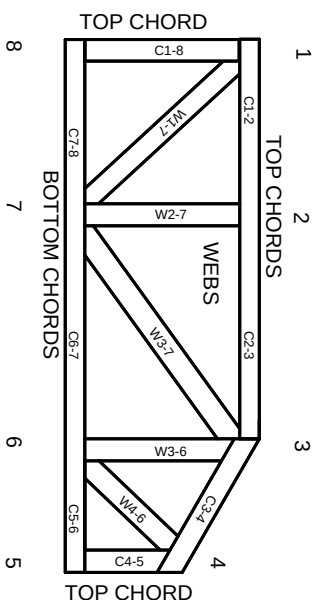


BEARING



Industry Standards:
ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:
ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



Structural Engineers – Since 1957

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

BOB D. CAMPBELL & CO., INC.

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Lee S. Johnson, P.E.
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Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: October 4, 2021

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Foundation Rebar Shop Drawings	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102



Employee-Owned

TRANSMITTAL

Kolten Ragan, Project Engineer
Brinkmann Constructors
 11101 Switzer Road, Suite 310
 Overland Park, KS 66210

Date: 3/1/2022

To:

TR,i Architects

Attn: Michaela Silva
 1790 S Brentwood Blvd
 St. Louis, MO 63144

Re: Vanguard Villas

2100 NW Lowenstein Dr.
 Lee's Summit, MO 64081

Job #: 1399

We are sending:

- ☐ Product Data
- ☐ Reports
- ☒ Shop Drawings
- ☐ Samples
- ☐ Other

Transmitted as checked:

- ☒ For Approval
- ☐ For Your Use
- ☐ As Requested
- ☐ Approved as Submitted
- ☐ Other

Transmitted via:

- ☒ Via email (PDF)
- ☐ Copies to follow (USPS/Ground)

Submittal Number	Description	Date Submitted	Due Date
061753-4	Group 3 Floor & Roof Truss - SD	3/1/2022	3/8/2022

REVIEWED ☒

DATE RECEIVED:

REVIEWED AS NOTED ☐

DATE REVIEWED: 3/14/2022

REVISE AND RESUBMIT ☐

REVIEWED BY: michaela.silva

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



1790 Brentwood Blvd.
 St. Louis, Missouri 63144
 314.395.9750
 www.triarchitects.com

Brinkmann Approval

Submittals bearing this stamp have been verified or will be verified as to materials, field measurements and construction criteria related thereto and have been coordinated with the Contract Documents. The Sub-contractor is responsible to the General Contractor for dimensions to be confirmed and correlated at the job site, and for information that pertains to the fabrication process or to the technique of construction and for coordination of the work with all trades.

By: Kolten Ragan

Date: 3/1/2022

Brinkmann Comments in Green

Truss Connector Total List		
Manuf	Product	Qty
	THA422	131



Products					
PtID	Length	Product	Files	Net Qty	Fab Type
BM1(8)	18:00	1/34" x 18" 2.0 Microlam@ LVL	1	MFD	
BM13(18)	18:00	1/34" x 18" 2.0 Microlam@ LVL	1	MFD	
BM7(18)	18:00	1/34" x 18" 2.0 Microlam@ LVL	1	MFD	
BM9(18)	18:00	1/34" x 18" 2.0 Microlam@ LVL	1	MFD	
BM14(18)	18:00	1/34" x 18" 2.0 Microlam@ LVL	1	MFD	
BM12(14)	14:00	1/34" x 18" 2.0 Microlam@ LVL	1	MFD	
BM14(14)	14:00	1/34" x 18" 2.0 Microlam@ LVL	1	MFD	
BM8(14)	14:00	1/34" x 18" 2.0 Microlam@ LVL	1	MFD	
BM1(8)	8:00	1/34" x 18" 2.0 Microlam@ LVL	2	MFD	
BM5(8)	8:00	1/34" x 18" 2.0 Microlam@ LVL	2	MFD	
BM3(8)	8:00	1/34" x 18" 2.0 Microlam@ LVL	2	MFD	
BM6(8)	8:00	1/34" x 18" 2.0 Microlam@ LVL	2	MFD	
BM18(HF)	8:00	2x12 HF No.2	2	MFD	
BM19(HF)	8:00	2x12 HF No.2	2	MFD	
BM21(HF)	8:00	2x12 HF No.2	2	MFD	
BM22(HF)	8:00	2x12 HF No.2	2	MFD	

Floor Information
First Floor Area: 0 ft²
Second Floor Area: 4537.31

SHOP DRAWING REVIEW	
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS	
☐	APPROVED
☐	FURNISH AS CORRECTED
☐	REJECTED. REVISE & RESUBMIT
☐	RETURNED NOT REVIEWED
☒	REVIEWED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY	
Bob D. Campbell & Co., Inc. STRUCTURAL ENGINEERS	
DATE	03/08/2022 BY: cb

NOTE:
Yellow ID Tag
Location Indicates
Left/Front/Bottom
of Truss



3363 S Halstead Rd
Halstead, KS 67056
Office: 316-830-6108

Brinkmann Constructors

G03F

Job Na

Structure Ref #:

•

Halstead, KS 67056
Office: 316-830-6108

Model Name:

2100 NW Lowenstein Dr

it, Mo 64063

		Lot / Blk:	Lot
--	--	------------	-----

Thank you for giving us the opportunity to serve you.

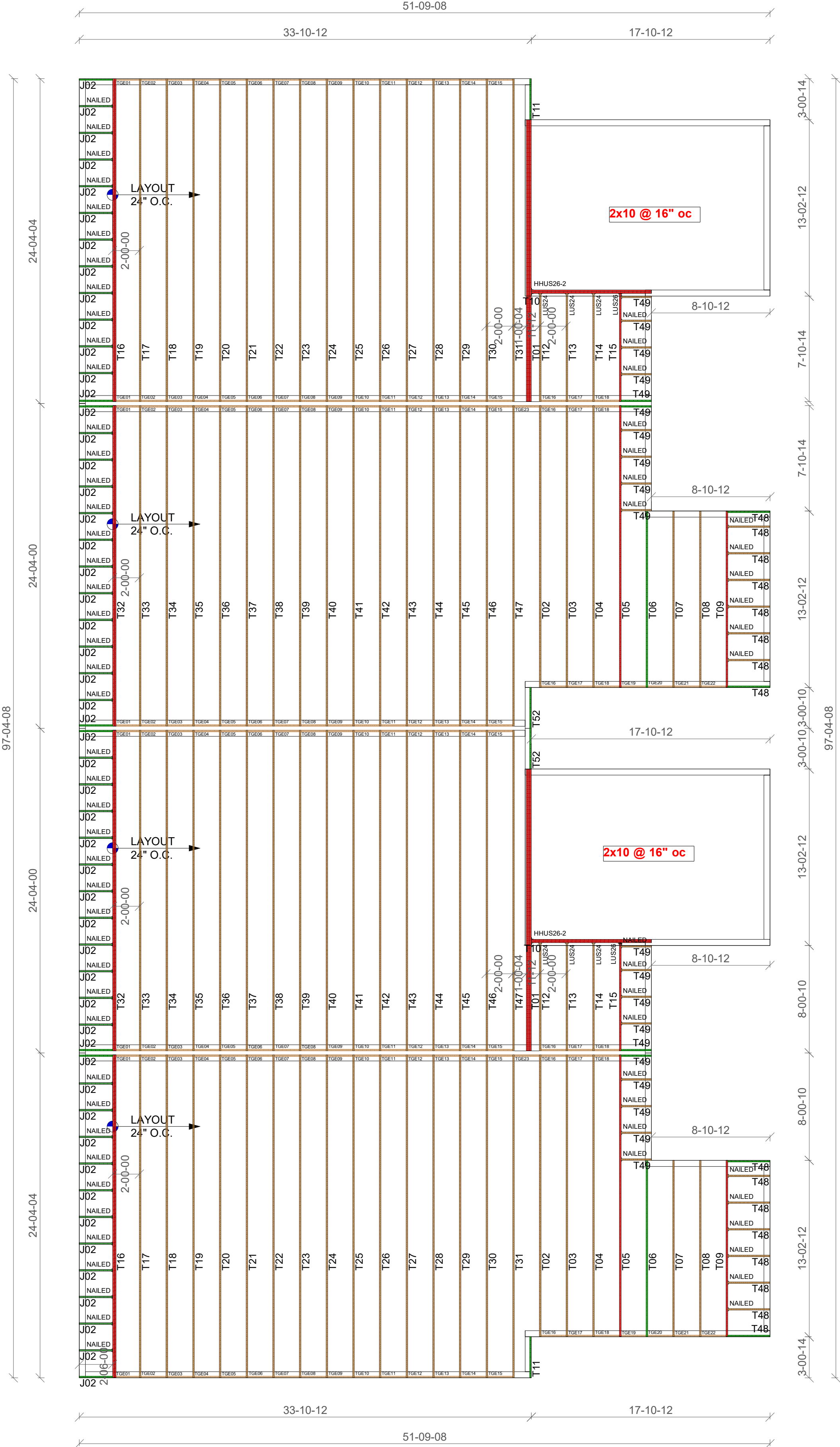
We appreciate your business and the confidence you have placed in us.

Please call us if we can be of further assistance.

Please call us if we can be of further assistance.

Group 3 Roof Plan
4-Plex Building

9-1-2 WALL HEIGHTS U.N.O.



Truss Connector Total List		
Manuf	Product	Qty
Simpson	HHUS26-2	2
	LUS24	6
Simpson	LUS26	2

Roof Information
Roof Area: 4547.15
Ridge Line: 0
Hip Line: 0
Horiz Eave Line: 294.63
Raked Eave Line:168.65
Valley Line: 0

DO NOT Erect BWRDS/Upside Down, Cut, Alter, Installed Trusses!



3363 S Halstead Rd
Halstead, KS 67056
Office: 316-830-6108

NOTE:
Yellow ID Tag
Location Indicates
Left/Right/Bottom
of Truss

Brinkmann Constructors

G03R

Job Name:
Structure Ref #:
Designer:
OT Ref #:

Juan Quiroz
J220198

Status:
Order

Date:
2/28/2022

Model Name:
Address:
Subdivision:

2100 NW Lowenstein Dr
Lee Summit,
Mo

Lot / Blk:
64063

Model Name:
Address:
Subdivision:

Thank you for giving us the opportunity to serve you.
We appreciate your business and the confidence you have placed in us.
Please call us if we can be of further assistance.



RE: J220198-G03F - Brinkmann Constructors

MiTek USA, Inc.

Site Information:

Project Customer: Valued customer Project Name: BRINKMANN CONSTRUCTORS

16023 Swingley Ridge Rd

Chesterfield, MO 63017

314-434-1200

Lot/Block:

Subdivision:

Model:

Address: 2100 NW Lowenstein Dr

City: Lee Summit

State: Mo

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IBC2018/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: N/A Wind Speed: N/A mph

Design Method: N/A

Roof Load: N/A psf

Floor Load: 75.0 psf

Mean Roof Height (feet): N/A

Exposure Category: N/A

No.	Seal#	Truss Name	Date
1	I50479032	F02	3/1/22
2	I50479033	F03	3/1/22
3	I50479034	F11	3/1/22
4	I50479035	F12	3/1/22
5	I50479036	F13	3/1/22
6	I50479037	F14	3/1/22
7	I50479038	F15	3/1/22
8	I50479039	F16	3/1/22
9	I50479040	F17	3/1/22
10	I50479041	F18	3/1/22
11	I50479042	F18G	3/1/22
12	I50479043	F19	3/1/22
13	I50479044	F19G	3/1/22
14	I50479045	F21	3/1/22
15	I50479046	F22	3/1/22
16	I50479047	F23	3/1/22
17	I50479048	F24	3/1/22
18	I50479049	F25	3/1/22
19	I50479050	F26	3/1/22
20	I50479051	F27	3/1/22
21	I50479052	F28	3/1/22
22	I50479053	F28G	3/1/22
23	I50479054	F29	3/1/22
24	I50479055	F29G	3/1/22
25	I50479056	L11	3/1/22
26	I50479057	L21	3/1/22

SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 03/08/2022 BY: cb

REVIEWED ☒

DATE RECEIVED:

REVIEWED AS NOTED ☐

DATE REVIEWED: 3/14/2022

REVISE AND RESUBMIT ☐

REVIEWED BY: michaela.silva

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



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mill Creek Truss, LLC.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2023.

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



March 1, 2022

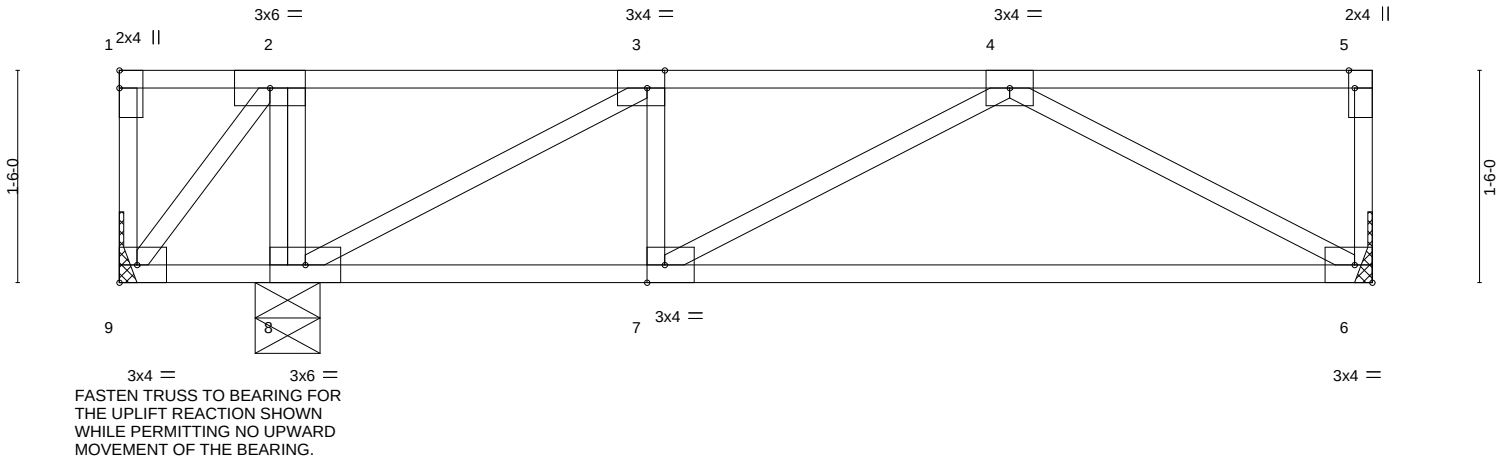
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479032
J220198-G03F	F02	Floor	36	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:38 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy9311-AR7iPGvi6pN1VKW3uHXwX3QHn9dAH6T6FNdlj6zgdgl

0-11-4 2-5-0 2-5-4

Scale = 1:16.3



1-2-4 1-2-4		8-10-4 7-8-0	
Plate Offsets (X,Y)--		[3:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 40.0	Plate Grip DOL 1.00	TC 0.25	in (loc) l/defl L/d
TCDL 25.0	Lumber DOL 1.00	BC 0.29	Vert(LL) -0.01 6-7 >999 480
BCLL 0.0	Rep Stress Incr YES	WB 0.13	Vert(CT) -0.09 6-7 >999 360
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Horz(CT) 0.00 6 n/a n/a
		PLATES GRIP	
		MT20 197/144	
		Weight: 38 lb FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SPF No.2(flat)
 WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 9=Mechanical, 6=Mechanical, 8=0-5-8
 Max Uplift 9=-222(LC 4)
 Max Grav 6=343(LC 1), 8=721(LC 1)

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

TOP CHORD 3-4=-393/0
 BOT CHORD 7-8=0/393, 6-7=0/417
 WEBS 2-8=-407/0, 2-9=0/274, 4-6=-476/0, 3-8=-641/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.



March 1, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

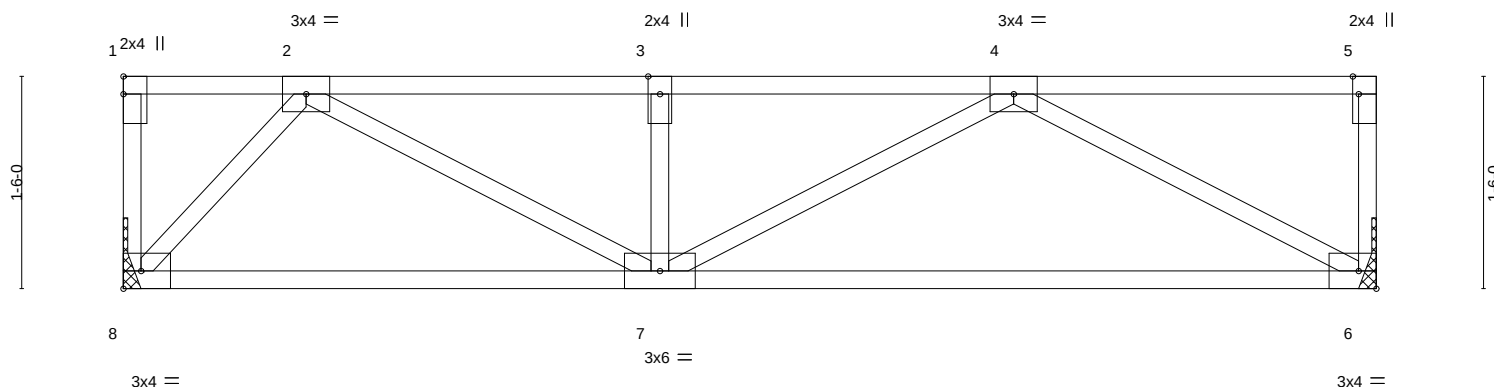
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F03	Floor	4	1	IS0479033

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:39 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXly93I1-eeh4ccwKt7Vu7U4GS?294HzSWZyo0YcGT1NGIYzgdgk

1-2-0 2-5-4

Scale = 1:16.3



0-1-8 0-1-8		8-10-4 8-8-12	
Plate Offsets (X,Y)--		[5:0-1-8,Edge]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 40.0	Plate Grip DOL 1.00	TC 0.25	in (loc) l/defl L/d
TCDL 25.0	Lumber DOL 1.00	BC 0.33	Vert(LL) -0.01 7 >999 480
BCLL 0.0	Rep Stress Incr YES	WB 0.14	Vert(CT) -0.09 6-7 >999 360
BCDL 10.0	Code IBC2018/TPI2014	Matrix-P	Horz(CT) 0.01 6 n/a n/a
		PLATES GRIP	
		MT20 197/144	
		Weight: 36 lb FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 6=Mechanical, 8=Mechanical
Max Grav 6=436(LC 1), 8=436(LC 1)

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

TOP CHORD 2-3=-731/0, 3-4=-731/0
BOT CHORD 7-8=0/354, 6-7=0/587
WEBS 4-6=-670/0, 2-7=0/430, 2-8=-531/0

NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 1,2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

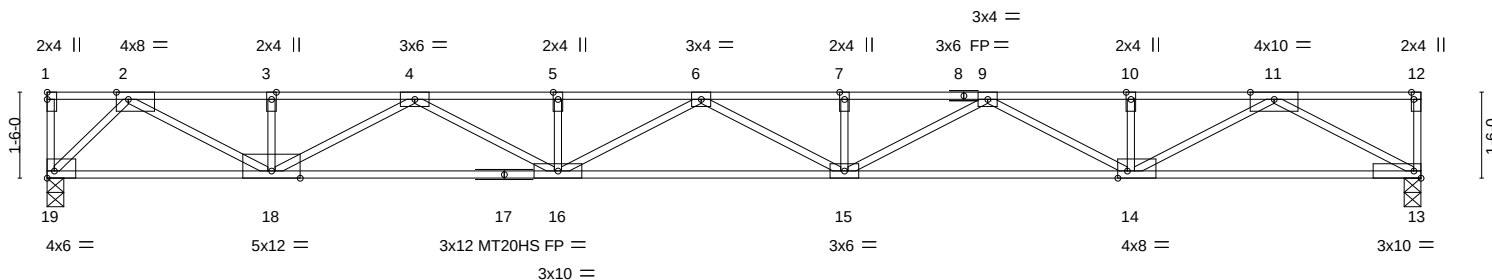
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F11	Floor	16	1	ISO479034

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:40 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-6qFSqxydRdllefS0iZOcUWTnyDclvLPih6qq_zgdgj

1-3-8 2-5-4

Scale = 1:40.2



23-11-12
23-11-12

Plate Offsets (X,Y)-- [2:0-2-8,Edge], [12:0-1-8,Edge], [14:0-2-0,Edge], [19:Edge,0-1-8]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.85	Vert(LL)	-0.38 15-16	>753	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.67	Vert(CT)	-0.74 15-16	>389	360	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.10 13	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S					Weight: 93 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 13=0-3-8, 19=0-3-8
Max Grav 13=1193(LC 1), 19=1193(LC 1)

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

TOP CHORD 2-3=-2845/0, 3-4=-2845/0, 4-5=-4866/0, 5-6=-4866/0, 6-7=-5071/0, 7-9=-5071/0, 9-10=-3471/0, 10-11=-3471/0
BOT CHORD 18-19=0/1124, 16-18=0/4056, 15-16=0/5170, 14-15=0/4474, 13-14=0/1960
WEBS 11-13=-2237/0, 11-14=0/1724, 9-14=-1145/0, 9-15=0/681, 6-16=-348/0, 4-16=0/924, 4-18=-1381/0, 2-18=0/1965, 2-19=-1601/0

NOTES-

- 1) All plates are MT20 plates unless otherwise indicated.
- 2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 1,2022

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Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479035
J220198-G03F	F12	Floor	1	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

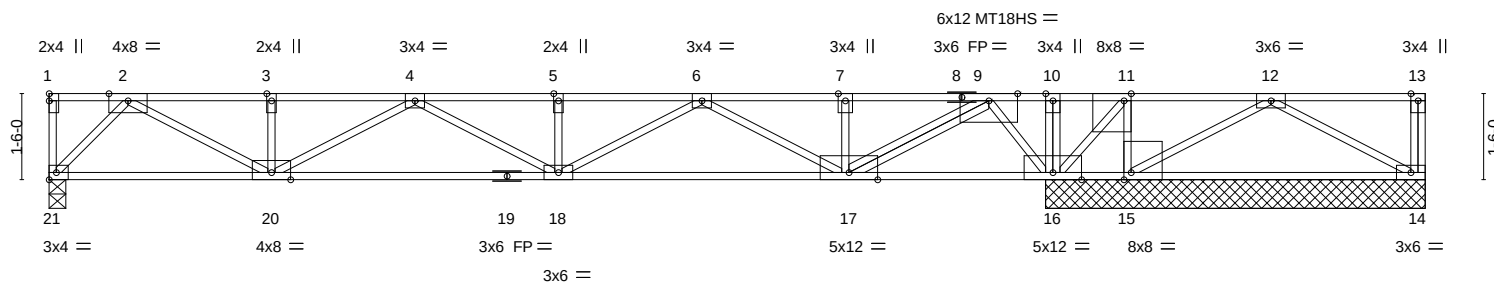
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:40 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLY9311-6qFSqyxdRdlleS0iZOCuWX4yBRlvKPih6qq_zgdgj

1-3-0 2-5-4

0-11-14 1-1-6

0-1-8

Scale = 1:40.1



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

17-5-14
17-5-1423-11-12
6-5-14

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.58	Vert(LL)	-0.08 18-20	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.81	Vert(CT)	-0.23 17-18	>896	360	MT18HS	197/144
BCLL 0.0	Rep Stress Incr	NO	WB 0.56	Horz(CT)	0.03 16	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						
								Weight: 101 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat) *Except*
8-13: 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 21=0-3-8, 14=6-7-6, 15=6-7-6, 16=6-7-6
Max Uplift 14=-246(LC 1), 15=-1295(LC 1)
Max Grav 21=830(LC 1), 16=4351(LC 1)

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

TOP CHORD 2-3=-1820/0, 3-4=-1820/0, 4-5=-2545/0, 5-6=-2545/0, 6-7=-1423/0, 7-9=-1349/0,
9-10=0/3794, 10-11=0/3794, 11-12=0/1796
BOT CHORD 20-21=0/745, 18-20=0/2379, 17-18=0/2193, 16-17=-1942/0, 15-16=-1796/0,
14-15=-672/0
WEBS 2-21=-1080/0, 2-20=0/1227, 4-20=-638/0, 6-18=0/401, 6-17=-874/0, 7-17=-1473/0,
9-17=0/3819, 12-14=0/762, 12-15=-1283/0, 11-15=0/1970, 11-16=-2910/0, 9-16=-2798/0

NOTES-

- 1) All plates are MT20 plates unless otherwise indicated.
- 2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 14 and 1295 lb uplift at joint 15.
- 3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 4) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87
Concentrated Loads (lb)
Vert: 7=-1260
- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87



March 1, 2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F12	Floor	1	1	I50479035

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:40 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy9311-6qFSqyxydRdllefS0iZOCUWX4yBRlvKPih6qq_zgdgj

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-1260

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

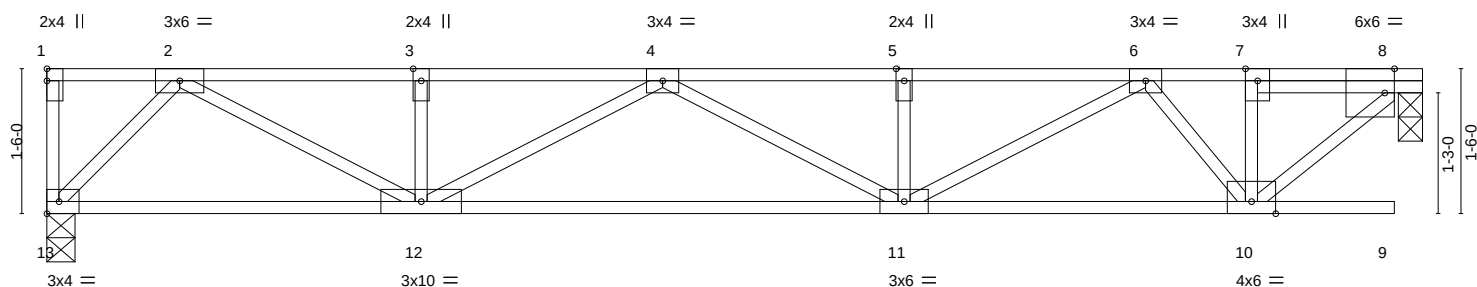
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479036
J220198-G03F	F13	Floor	1	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:41 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-a0pq11xaOkicMoEeZQ4d9i2oFMaFUQ4YxLSNMRzgdgi

1-3-0 2-5-4 1-0-6 1-5-0 0-3-8

Scale: 1/2"=1'



										12-6-6				13-11-6		14-2-14			
										12-6-6				1-5-0		0-3-8			
Plate Offsets (X,Y)-- [8:0-1-3,Edge]																			
LOADING (psf)		SPACING-		1-4-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL 40.0		Plate Grip DOL		1.00		TC 0.23		Vert(LL)		-0.05 11-12		>999		480		MT20		197/144	
TCDL 25.0		Lumber DOL		1.00		BC 0.58		Vert(CT)		-0.14 11-12		>999		360					
BCLL 0.0		Rep Stress Incr		YES		WB 0.27		Horz(CT)		-0.00 8		n/a		n/a					
BCDL 10.0		Code IBC2018/TPI2014				Matrix-S										Weight: 58 lb		FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 13=0-3-8, 8=0-3-0
Max Grav 13=694(LC 1), 8=694(LC 1)

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

TOP CHORD 2-3=-1446/0, 3-4=-1446/0, 4-5=-1671/0, 5-6=-1671/0, 6-7=-677/0, 7-8=-680/0
BOT CHORD 12-13=0/616, 11-12=0/1753, 10-11=0/1082
WEBS 2-13=-892/0, 2-12=0/947, 4-12=-351/0, 6-11=0/672, 6-10=-650/0, 8-10=0/905

NOTES-

- 1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 4) CAUTION, Do not erect truss backwards.



March 1, 2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479037
J220198-G03F	F14	FLOOR	1	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:42 2022 Page 1
ID:6EjRsZEEA1occ44RuFMRXLY9311-3DMDFeYC92tT_ypq77bshvby2mxjDtFIA?bxutzgdgh

1-0-8 2-5-4

1-0-6 1-5-0 0-3-8

Scale = 1:23.5

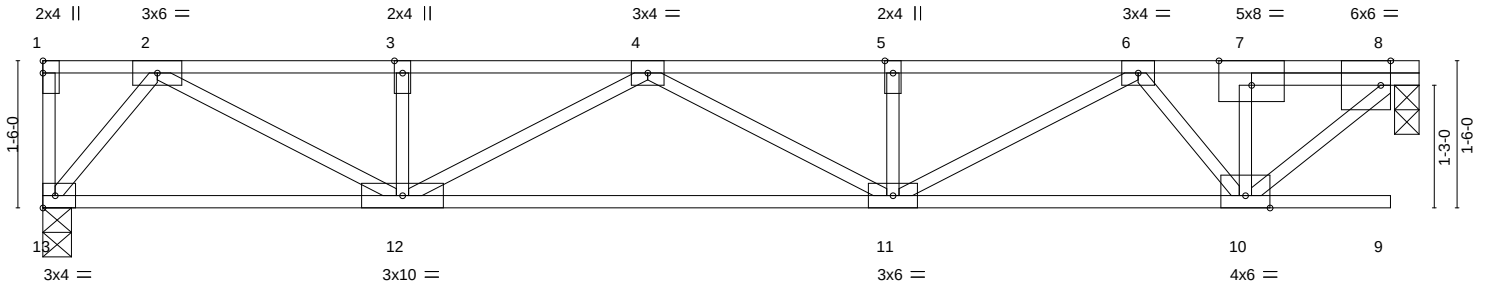
13-8-14
13-8-1414-0-6
0-3-8

Plate Offsets (X,Y)-- [7:0-4-0,Edge], [8:0-1-3,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.23	Vert(LL)	-0.05	11-12	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.57	Vert(CT)	-0.14	11-12	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.27	Horz(CT)	-0.00	8	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						Weight: 57 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SPF No.2(flat)
 WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 13=0-3-8, 8=0-3-0
 Max Grav 13=684(LC 1), 8=684(LC 1)

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

TOP CHORD 2-3=-1369/0, 3-4=-1369/0, 4-5=-1632/0, 5-6=-1632/0, 6-7=-695/0, 7-8=-699/0
 BOT CHORD 12-13=0/522, 11-12=0/1695, 10-11=0/1062
 WEBS 8-10=0/935, 6-10=-592/0, 6-11=0/650, 4-12=-373/0, 2-12=0/966, 2-13=-834/0

NOTES-

- 1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 4) CAUTION, Do not erect truss backwards.



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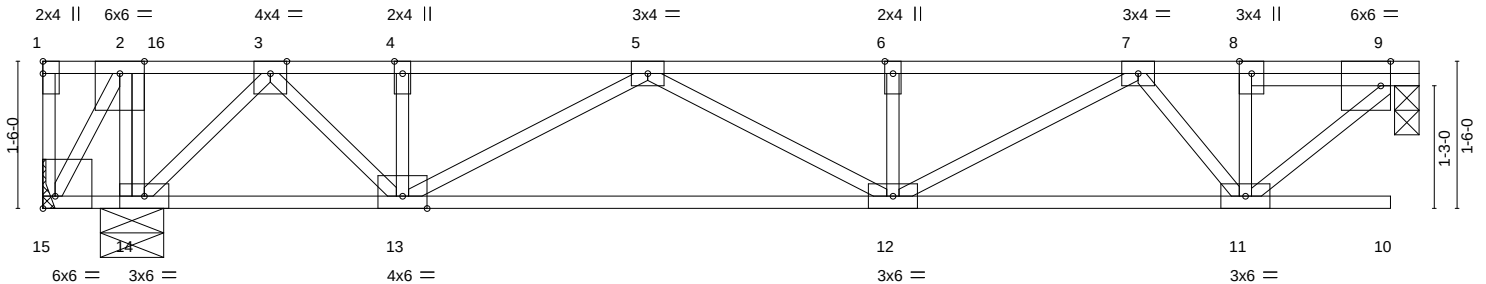
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479038
J220198-G03F	F15	FLOOR	1	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:42 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLY93I1-3DMDFeYC92tT_ypq77bshvbxHmzMDsdiA?bxutzgdgh

Scale = 1:23.5



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

0-10-15	12-3-14	13-8-14	14-0-6
0-10-15	11-4-15	1-5-0	0-3-8
Plate Offsets (X,Y)-- [9:0-1-3,Edge], [15:Edge,0-1-8]			

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.28	Vert(LL)	-0.03 12-13	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.40	Vert(CT)	-0.10 12-13	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.38	Horz(CT)	-0.00 9	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S					Weight: 61 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 15=Mechanical, 14=0-7-12, 9=0-3-0
Max Uplift 15=-1150(LC 4)
Max Grav 14=1930(LC 1), 9=564(LC 1)

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

TOP CHORD 2-3=0/699, 3-4=-484/0, 4-5=-484/0, 5-6=-1192/0, 6-7=-1192/0, 7-8=-537/0, 8-9=-540/0
BOT CHORD 14-15=-699/0, 12-13=0/1040, 11-12=0/839
WEBS 2-15=0/1333, 9-11=0/718, 7-11=-484/0, 7-12=0/404, 5-13=-635/0, 3-14=-907/0, 3-13=0/761, 2-14=-1267/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1150 lb uplift at joint 15.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.



March 1, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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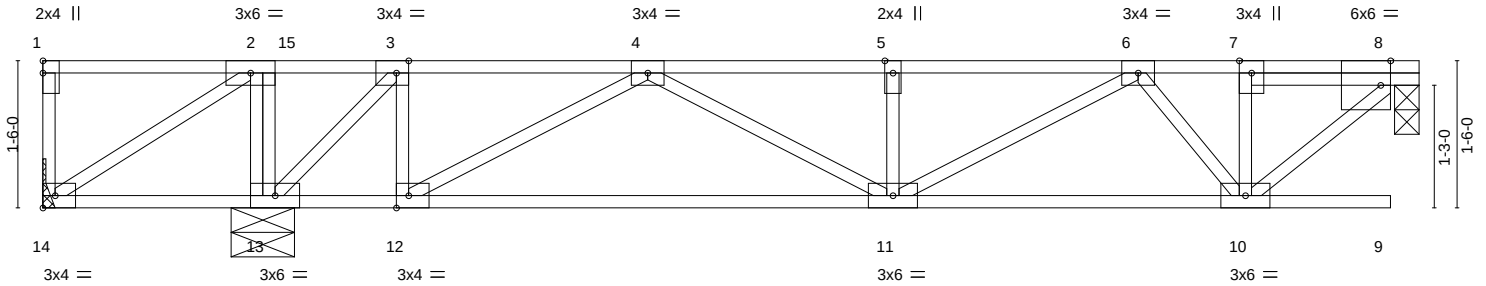
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479039
J220198-G03F	F16	FLOOR	1	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:43 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy9311-XPwbS_zrwM?Kc5O1hr75E786QAK2yLcrOfLURJzgdgg

Scale = 1:23.5



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

2-2-15	13-8-14	14-0-6
2-2-15	11-5-15	0-3-8

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [8:0-1-3,Edge], [12:0-1-8,Edge]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.32	Vert(LL)	-0.02 11	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.31	Vert(CT)	-0.08 11-12	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.20	Horz(CT)	-0.00 8	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						
								Weight: 60 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.

REACTIONS.

(size) 14=Mechanical, 13=0-7-12, 8=0-3-0
Max Uplift 14=-340(LC 4)
Max Grav 13=1153(LC 1), 8=501(LC 4)

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

TOP CHORD 2-3=0/601, 4-5=-957/0, 5-6=-957/0, 6-7=-469/0, 7-8=-471/0
BOT CHORD 13-14=-601/0, 11-12=0/690, 10-11=0/719
WEBS 2-14=0/710, 8-10=0/627, 6-10=-402/0, 6-11=0/272, 4-11=0/305, 4-12=-771/0, 3-12=0/426, 3-13=-860/0, 2-13=-553/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 340 lb uplift at joint 14.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.



March 1, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

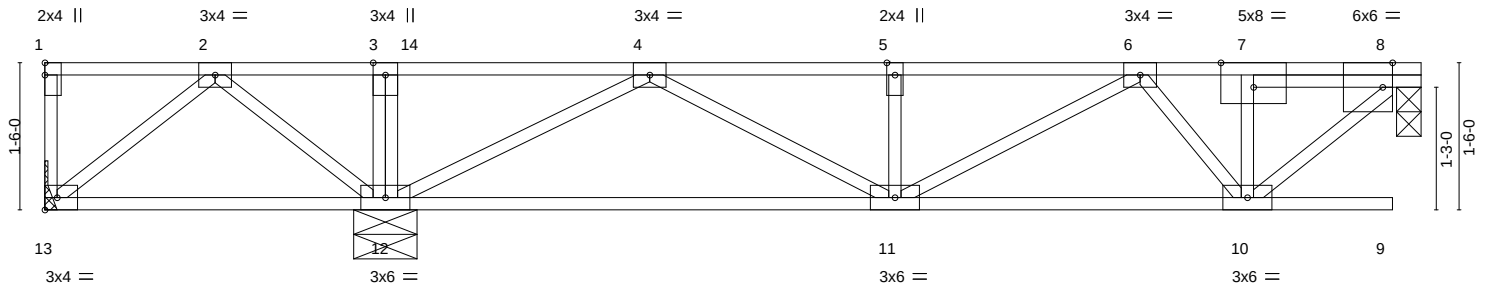
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479040
J220198-G03F	F17	FLOOR	1	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:43 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-XPwbS_zrwM?Kc5O1hr75E785AALxyLarOfLURJzgdgg

1-7-5 2-6-13 2-5-4 2-5-4 1-0-6 1-5-0 0-3-8

Scale = 1:23.5



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

3-5-11	13-8-14	14-0-6
3-5-11	10-3-3	0-3-8
Plate Offsets (X,Y)--	[7:0-4-0,Edge], [8:0-1-3,Edge]	

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.33	Vert(LL)	-0.02	11	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.25	Vert(CT)	-0.07	11-12	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.20	Horz(CT)	-0.00	8	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						Weight: 59 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

REACTIONS.

(size) 13=Mechanical, 12=0-7-12, 8=0-3-0
Max Uplift 13=-126(LC 4)
Max Grav 13=67(LC 3), 12=965(LC 1), 8=443(LC 4)

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

TOP CHORD 2-3=0/470, 3-4=0/473, 4-5=-746/0, 5-6=-746/0, 6-7=-425/0, 7-8=-429/0
BOT CHORD 11-12=0/378, 10-11=0/613
WEBS 8-10=0/573, 6-10=-303/0, 4-11=0/424, 4-12=-947/0, 2-13=0/262, 2-12=-420/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.



March 1, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

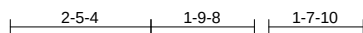


16023 Swingley Ridge Rd
Chesterfield, MO 63017

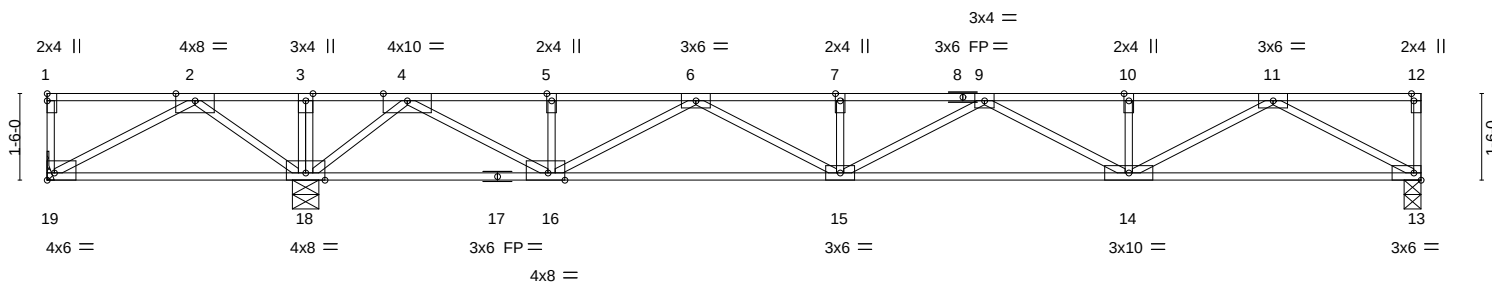
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479041
J220198-G03F	F18	Floor	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:44 2022 Page 1
ID:6EjRsZEEA1occ44RuFMRXLy9311-?bUzgK_Thf7BDFzDFYeKnKg9DaZbhkH?dJ41zmzgdg



Scale = 1:39.9



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

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.12 14-15 >999 480	MT20		197/144	
TCDL	25.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.23 14-15 >984 360				
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03 13 n/a n/a				
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S							
								Weight: 94 lb		FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 13=0-3-8, 18=0-5-8, 19=Mechanical
Max Uplift 19=-633(LC 4)
Max Grav 13=795(LC 4), 18=2096(LC 1)

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

TOP CHORD 2-3=0/2338, 3-4=0/2338, 4-5=-533/0, 5-6=-533/0, 6-7=-2187/0, 7-9=-2187/0, 9-10=-2028/0, 10-11=-2028/0
BOT CHORD 18-19=-1251/0, 16-18=-1015/0, 15-16=0/1557, 14-15=0/2307, 13-14=0/1237
WEBS 2-19=0/1428, 2-18=-1468/0, 11-13=-1412/0, 11-14=0/903, 9-14=-318/0, 6-15=0/722, 6-16=-1171/0, 4-16=0/1749, 4-18=-1681/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 633 lb uplift at joint 19.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.



March 1, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

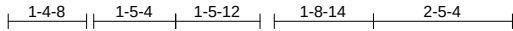
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



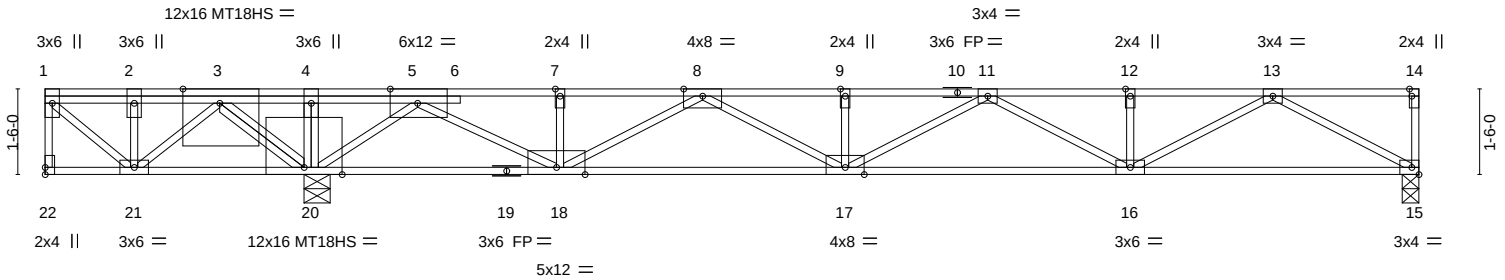
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job J220198-03F	Truss F18G	Truss Type Floor Special	Qty 1	Ply 1	Brinkmann Constructors Job Reference (optional)	IS0479042
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Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:18:24 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-a1wTwwrPcYJj9JJ2nGkVgQUxOADOfo34097JaazfP6D

Scale = 1:40.4

TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED
LOADS AT ITS CANTILEVERED END(S).

4-6-8		4-8-0	24-1-2
4-6-8		0-1-8	19-5-2
Plate Offsets (X,Y)-- [3:0-7-12,Edge], [5:0-5-12,Edge], [14:0-1-8,Edge]			
LOADING (psf)	SPACING-	CSL	DEFL.
TCLL 40.0	1-4-0	TC 0.64	in (loc) l/defl L/d
TCDL 25.0	Plate Grip DOL 1.00	BC 0.91	Vert(LL) -0.15 17 >999 480
BCLL 0.0	Lumber DOL 1.00	WB 0.69	Vert(CT) 0.14 17 >999 360
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) -0.05 15 n/a n/a
	Code IBC2018/TPI2014		
			PLATES
			MT20 197/144
			MT18HS 197/144
			Weight: 112 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E(flat) *Except*
10-14: 2x4 SPF No.2(flat)
BOT CHORD 2x4 DF 2400F 2.0E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 21-22.

REACTIONS.

(lb/size) 15=513/0-3-8, 20=6884/0-5-8
Max Uplift 15=-4(LC 3)
Max Grav 15=542(LC 4), 20=6884(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=0/6609, 4-5=0/6609, 5-6=0/3791, 6-7=0/3804, 7-8=0/3804, 8-9=-355/1686,
9-10=-355/1686, 10-11=-355/1686, 11-12=-1112/399, 12-13=-1112/399
BOT CHORD 20-21=-406/0, 19-20=-5350/0, 18-19=-5350/0, 17-18=-2679/0, 16-17=-968/932,
15-16=-114/780
WEBS 4-20=-265/0, 13-15=-890/130, 13-16=-326/380, 11-16=0/648, 11-17=-820/0,
8-17=0/1303, 8-18=-1742/0, 5-18=0/2456, 5-20=-2307/0, 3-21=0/449, 3-20=-8130/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 20 = 7%
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 15.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-14=-87
Concentrated Loads (lb)
Vert: 3=-5000
- Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-22=-13, 1-14=-87



March 1, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479042
J220198-03F	F18G	Floor Special	1	1	Job Reference (optional)	

Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:18:24 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-a1wTwvrPcYJj9JJ2nGkVgQUxOADofo34097JaazfP6D

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-5000

3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 15-22=-13, 1-4=-87, 4-14=-33

Concentrated Loads (lb)

Vert: 3=-5000

4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 15-22=-13, 1-4=-33, 4-14=-87

Concentrated Loads (lb)

Vert: 3=-5000

5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 15-22=-13, 1-4=-87, 4-14=-33

Concentrated Loads (lb)

Vert: 3=-5000

6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 15-22=-13, 1-4=-33, 4-14=-87

Concentrated Loads (lb)

Vert: 3=-5000

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



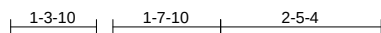
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

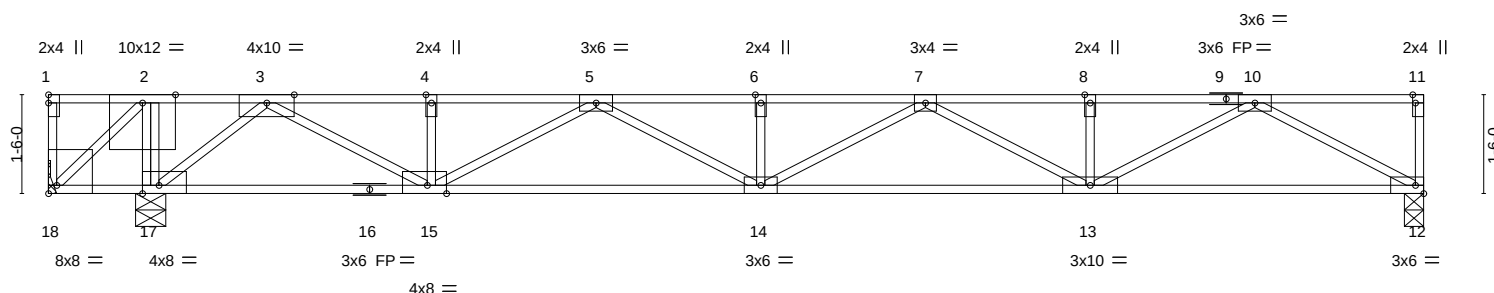
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479043
J220198-G03F	F19	Floor	6	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:46 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-x_cj4??jDHNuTZ7cMzgoslW6NFw9Y6H4dZ82ezgdgd



Scale = 1:35.0



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

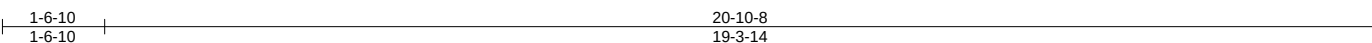


Plate Offsets (X,Y)-- [11:0-1-8,Edge], [15:0-3-8,Edge], [17:0-3-0,Edge], [18:Edge,0-1-8]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.74	Vert(LL)	-0.12 13-14	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.74	Vert(CT)	-0.24 13-14	>963	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S					Weight: 84 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 12=0-3-8, 18=Mechanical, 17=0-5-8
Max Uplift 18=-2061(LC 4)
Max Grav 12=801(LC 4), 17=3296(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/2230, 3-4=-604/0, 4-5=-604/0, 5-6=-2233/0, 6-7=-2233/0, 7-8=-2052/0, 8-10=-2052/0
BOT CHORD 17-18=-2230/0, 15-17=-919/0, 14-15=0/1615, 13-14=0/2342, 12-13=0/1249
WEBS 2-17=-2218/0, 2-18=0/3034, 10-12=-1425/0, 10-13=0/916, 7-13=-331/0, 5-14=0/705, 5-15=-1154/0, 3-15=0/1738, 3-17=-1665/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2061 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.



March 1,2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

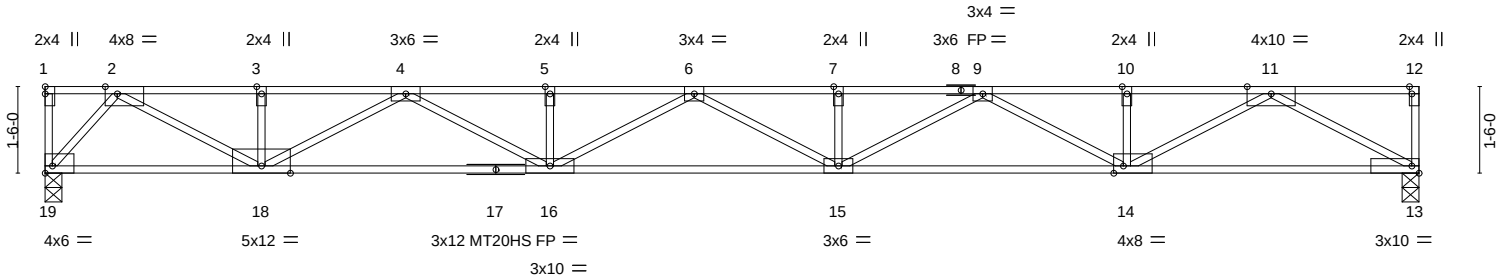
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F21	Floor	48	1	ISO479045

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:48 2022 Page 1
ID:6EjRsZEEA1occ44RuFMRXly93l1-tNkUVh1zIudciH_UOiGxArq1BycdXGaYx2F6Xzgdgb



Scale = 1:39.9



										23-9-12											
Plate Offsets (X,Y)--										[2:0-2-8,Edge], [12:0-1-8,Edge], [14:0-2-0,Edge], [19:Edge,0-1-8]										23-9-12	
LOADING (psf)		SPACING-		1-4-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP			
TCLL	40.0	Plate Grip DOL		1.00		TC 0.84		Vert(LL)		-0.37 15-16		>768		480		MT20		197/144			
TCDL	25.0	Lumber DOL		1.00		BC 0.66		Vert(CT)		-0.72 15-16		>397		360		MT20HS		148/108			
BCLL	0.0	Rep Stress Incr		YES		WB 0.56		Horz(CT)		0.10 13		n/a		n/a							
BCDL	10.0	Code IBC2018/TPI2014				Matrix-S										Weight: 93 lb		FT = 20%F, 11%E			

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 13=0-3-8, 19=0-3-8
Max Grav 13=1184(LC 1), 19=1184(LC 1)

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

TOP CHORD 2-3=-2724/0, 3-4=-2724/0, 4-5=-4775/0, 5-6=-4775/0, 6-7=-5011/0, 7-9=-5011/0, 9-10=-3441/0, 10-11=-3441/0
BOT CHORD 18-19=0/989, 16-18=0/3949, 15-16=0/5095, 14-15=0/4429, 13-14=0/1945
WEBS 11-13=-2220/0, 11-14=0/1707, 9-14=-1128/0, 9-15=0/664, 6-16=-365/0, 4-16=0/942, 4-18=-1399/0, 2-18=0/1980, 2-19=-1512/0

NOTES-

- 1) All plates are MT20 plates unless otherwise indicated.
- 2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 1,2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



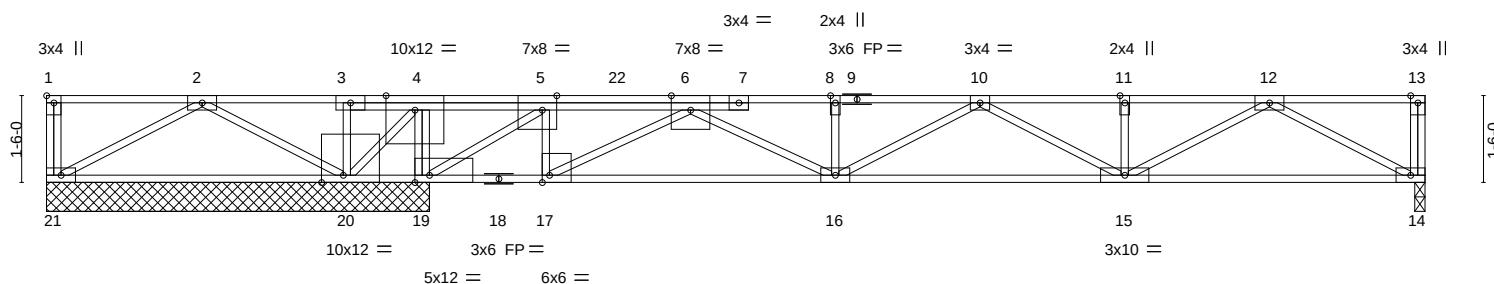
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479046
J220198-G03F	F22	Floor	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:48 2022 Page 1
ID:6EjRsZEEA1occ44RuFMRXLy9311-tNkUVh1zIudcitH_UOiGxArrZBw8dSQaYx2F6Xzgdgb

0-1-8

0-1-8
Scale = 1:39.8

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

	6-5-14		23-9-12	
	6-5-14		17-3-14	
Plate Offsets (X,Y)--	[1:Edge,0-1-8], [5:0-3-0,Edge], [17:0-1-8,Edge], [19:0-3-0,Edge], [20:0-4-8,Edge]			
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES
TCLL 40.0	1-4-0	TC 0.80	in (loc) l/defl L/d	MT20
TCDL 25.0	Plate Grip DOL 1.00	BC 0.82	Vert(LL) -0.07 15-16 >999 480	GRIP 197/144
BCLL 0.0	Lumber DOL 1.00	WB 0.87	Vert(CT) -0.22 15-16 >936 360	
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.03 14 n/a n/a	
	Code IBC2018/TPI2014			Weight: 105 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E(flat) *Except*
9-13: 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

REACTIONS.

(size) 21=6-7-6, 20=6-7-6, 14=0-2-2, 19=6-7-6
Max Uplift 21=-365(LC 4), 20=-1521(LC 4)
Max Grav 14=803(LC 4), 19=4360(LC 4)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/1793, 3-4=0/1795, 4-5=0/3928, 5-6=0/387, 6-8=-2219/0, 8-10=-2210/0,
10-11=-2071/0, 11-12=-2071/0
BOT CHORD 20-21=-791/0, 19-20=-3928/0, 17-19=-387/0, 16-17=0/1765, 15-16=0/2364,
14-15=0/1279
WEBS 4-19=-2167/0, 2-21=0/897, 2-20=-1281/0, 4-20=0/3077, 12-14=-1451/0, 12-15=0/904,
10-15=-335/0, 6-16=0/505, 6-17=-2421/0, 5-17=0/1168, 5-19=-4156/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x6 MT20 unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 365 lb uplift at joint 21 and 1521 lb uplift at joint 20.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
Vert: 14-21=-13, 1-13=-87
- Concentrated Loads (lb)
Vert: 22=-1260

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-15 oc bracing.



March 1, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F22	Floor	3	1	I50479046

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:48 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy9311-tNkUVh1zIudciH_UOiGxArrZBw8dSQaYx2F6Xzgdgb

LOAD CASE(S) Standard

- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-21=-13, 1-13=-87
 - Concentrated Loads (lb)
 - Vert: 22=-1260
- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-21=-13, 1-4=-87, 4-13=-33
 - Concentrated Loads (lb)
 - Vert: 22=-1260
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-21=-13, 1-4=-33, 4-13=-87
 - Concentrated Loads (lb)
 - Vert: 22=-1260
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-21=-13, 1-4=-87, 4-13=-33
 - Concentrated Loads (lb)
 - Vert: 22=-1260
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-21=-13, 1-4=-33, 4-13=-87
 - Concentrated Loads (lb)
 - Vert: 22=-1260

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



16023 Swingley Ridge Rd
Chesterfield, MO 63017

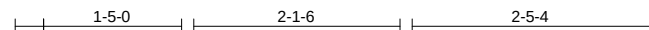
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F23	Floor	3	1	150479047

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:49 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy9311-LZHsj12bWCmTK0rB15DVT008WblrM28knbooezzgdga

0-3-8



Scale = 1:23.7

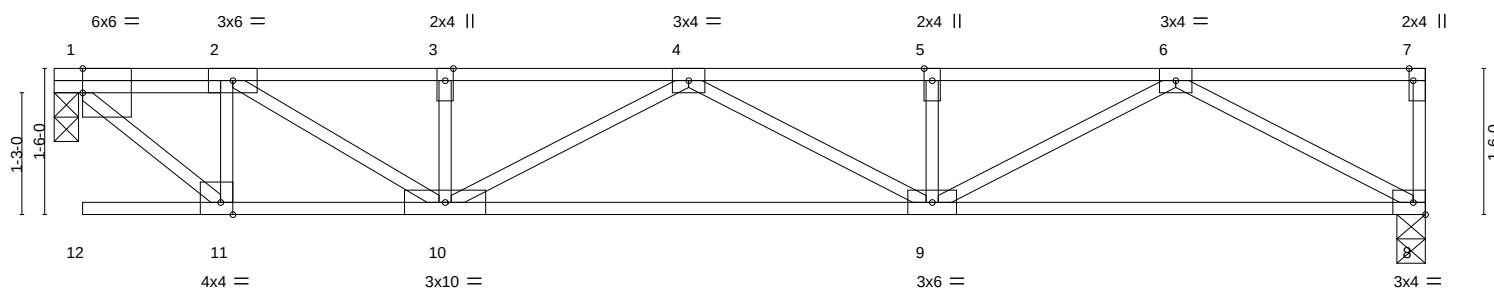
0-3-8 1-8-8
0-3-8 1-5-014-0-14
12-4-6

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.28	Vert(LL)	-0.05	9-10	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.60	Vert(CT)	-0.13	9-10	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						Weight: 57 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SPF No.2(flat)
 WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 1=0-3-0, 8=0-3-8
 Max Grav 1=686(LC 1), 8=686(LC 1)

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

TOP CHORD 1-2=-694/0, 2-3=-1390/0, 3-4=-1390/0, 4-5=-1637/0, 5-6=-1637/0
 BOT CHORD 10-11=0/692, 9-10=0/1715, 8-9=0/1042
 WEBS 6-8=-1189/0, 6-9=0/679, 4-10=-371/0, 1-11=0/925, 2-11=-578/0, 2-10=0/818

NOTES-

- 1) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 4) CAUTION, Do not erect truss backwards.



March 1, 2022

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

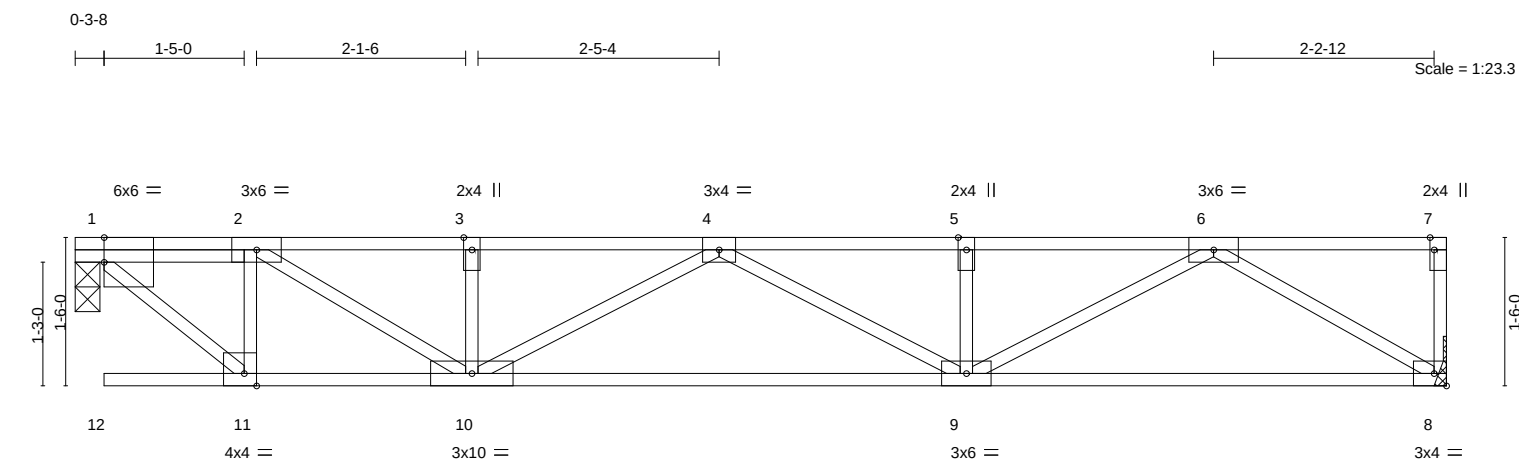


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F24	FLOOR	3	1	ISO479048

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:49 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly93l1-LZHsj12bWCmTK0rB15DVT0O9xbI7M2Dknbooezzgdga



0-3-8	13-10-6
0-3-8	13-6-14

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.05 9-10 >999 480	MT20		197/144	
TCDL	25.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.13 9-10 >999 360				
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.00 8 n/a n/a				
BCDL	10.0	Code	IBC2018/TPI2014	Matrix-S							
								Weight: 56 lb		FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2(flat)		

REACTIONS. (size) 8=Mechanical, 1=0-3-0
 Max Grav 8=676(LC 1), 1=676(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-682/0, 2-3=-1361/0, 3-4=-1361/0, 4-5=-1570/0, 5-6=-1570/0
 BOT CHORD 10-11=0/680, 9-10=0/1666, 8-9=0/954
 WEBS 1-11=0/910, 2-11=-568/0, 2-10=0/799, 4-10=-348/0, 6-9=0/704, 6-8=-1112/0

- NOTES-**
- 1) Refer to girder(s) for truss to truss connections.
 - 2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
 Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 5) CAUTION, Do not erect truss backwards.



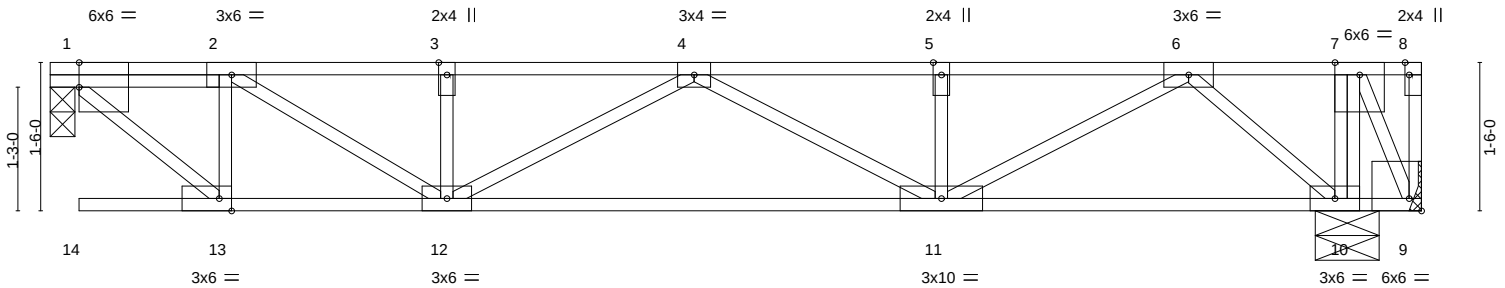
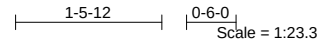
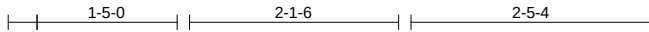
March 1,2022

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479049
J220198-G03F	F25	FLOOR	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:50 2022 Page 1
ID:6EJRszEEA1occ44RuFMRXLy93I1-qlrEwN2EHVuKxAQNbpk0bwJq_hU5UZt?FXMBPzgdgZ

0-3-8



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

0-3-8
0-3-813-1-6
12-9-1413-10-6
0-9-0

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1-4-0	TC 0.30	Vert(LL)	-0.03	11-12	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.45	Vert(CT)	-0.11	11-12	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.38	Horz(CT)	-0.00	9	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						Weight: 60 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

REACTIONS.

(size) 9=Mechanical, 10=0-7-12, 1=0-3-0
Max Uplift 9=-1222(LC 1)
Max Grav 10=2000(LC 1), 1=574(LC 1)

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

TOP CHORD 1-2=-573/0, 2-3=-1089/0, 3-4=-1089/0, 4-5=-922/0, 5-6=-922/0, 6-7=0/601
BOT CHORD 12-13=0/571, 11-12=0/1204, 9-10=-601/0
WEBS 1-13=0/763, 2-13=-473/0, 2-12=0/608, 4-11=-321/0, 6-11=0/909, 7-9=0/1342,
6-10=-957/0, 7-10=-1316/0

NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1222 lb uplift at joint 9.
- 3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 4) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 7) CAUTION, Do not erect truss backwards.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.



March 1, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479050
J220198-G03F	F26	FLOOR	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:51 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXly931l-lyPc8j3s2p0BZK?Z9WGzZpTSFO2_qzq1EvHvjszgdgY

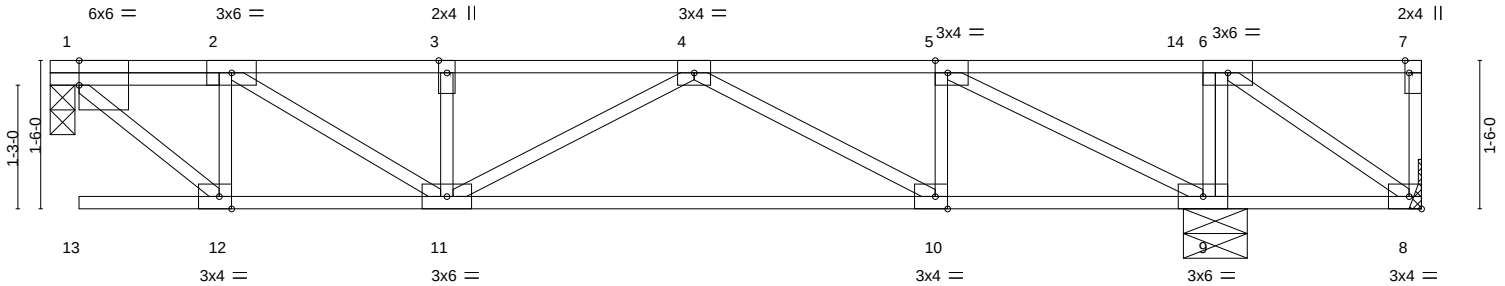
0-3-8

1-5-0 2-1-6 2-5-4

2-7-0

1-10-0

Scale = 1:23.3



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

0-3-8

11-9-6

13-10-6

0-3-8

11-5-14

2-1-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [7:0-1-8,Edge], [10:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.39	Vert(LL)	-0.02 10-11	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.37	Vert(CT)	-0.09 10-11	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.25	Horz(CT)	-0.00 8	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S					Weight: 59 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.

REACTIONS.

(size) 8=Mechanical, 9=0-7-12, 1=0-3-0
Max Uplift 8=-367(LC 3)
Max Grav 9=1166(LC 1), 1=501(LC 3)

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

TOP CHORD 1-2=-495/0, 2-3=-895/0, 3-4=-895/0, 4-5=-467/0, 5-6=0/569
BOT CHORD 11-12=0/493, 10-11=0/876, 9-10=0/467, 8-9=-569/0
WEBS 1-12=0/659, 2-12=-404/0, 2-11=0/472, 4-10=-470/0, 5-10=0/283, 6-8=0/688, 5-9=-1157/0, 6-9=-623/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 8.
- 4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 7) CAUTION, Do not erect truss backwards.



March 1, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

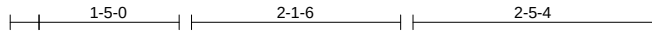
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479051
J220198-G03F	F27	FLOOR	3	1	Job Reference (optional)	

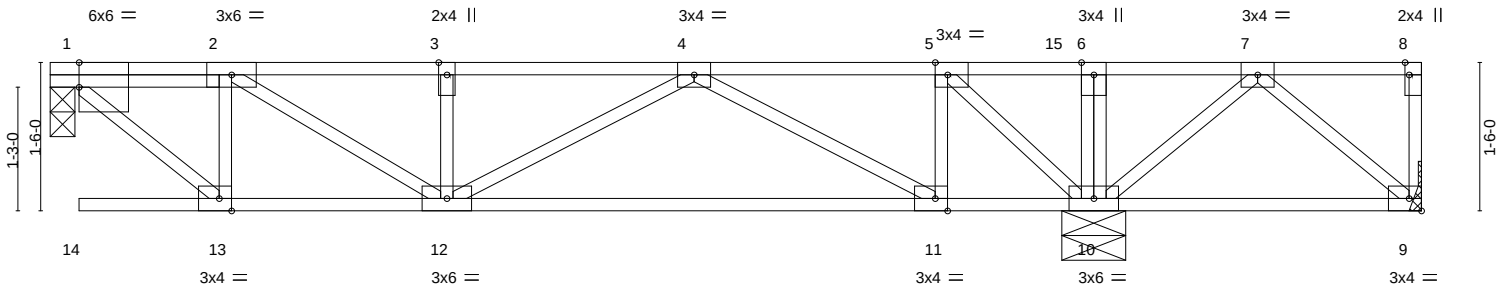
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:51 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy9311-lyPc8j3s2p0BZK?Z9WGzZpTUXO3Bq_C1EvHvjsjgdgY

0-3-8



Scale = 1:23.3



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

0-3-8
0-3-810-6-10
10-3-213-10-6
3-3-12

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [8:0-1-8,Edge], [11:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.28	Vert(LL)	-0.01	11-12	>999	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.29	Vert(CT)	-0.07	11-12	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.16	Horz(CT)	-0.00	9	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						Weight: 60 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

REACTIONS.

(size) 9=Mechanical, 10=0-7-12, 1=0-3-0
Max Uplift 9=-155(LC 3)
Max Grav 9=48(LC 4), 10=985(LC 1), 1=440(LC 3)

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

TOP CHORD 1-2=-429/0, 2-3=-728/0, 3-4=-728/0, 5-6=0/533, 6-7=0/534
BOT CHORD 12-13=0/427, 11-12=0/602
WEBS 1-13=0/571, 2-13=-346/0, 2-12=0/353, 4-11=-614/0, 5-11=0/347, 7-10=-476/0,
7-9=0/297, 5-10=-795/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.



March 1, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

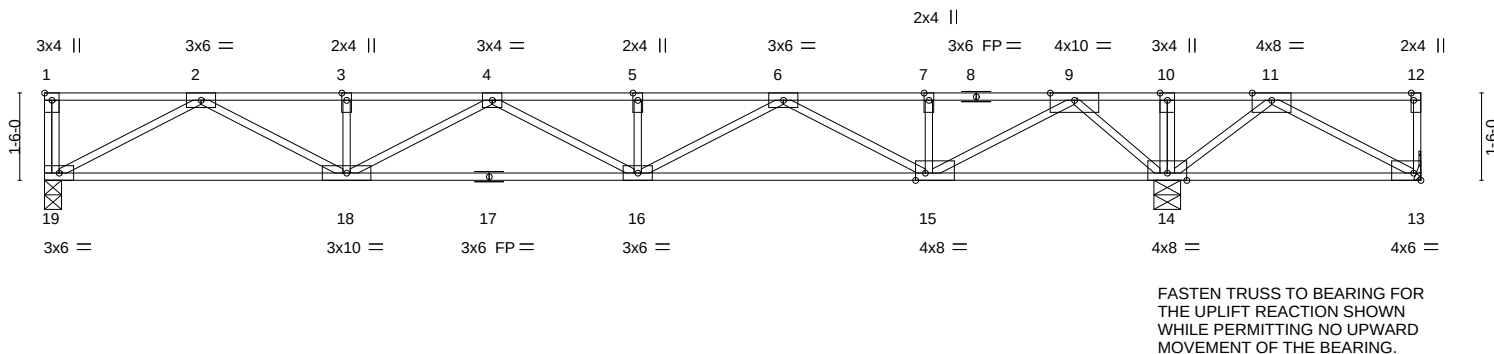
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479052
J220198-G03F	F28	Floor	6	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:52 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy9311-m8z_L34Up782BUalJnCS0?XGoIXZMAATZ0SFfzgdgX



19-3-6										23-7-10			
19-3-6										4-4-4			
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [12:0-1-8,Edge], [13:Edge,0-1-8], [15:0-2-0,Edge]													
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL 1.00		TC	0.82	Vert(LL)	-0.12	16-18	>999	480	MT20		197/144
TCDL	25.0	Lumber DOL 1.00		BC	0.73	Vert(CT)	-0.23	16-18	>999	360			
BCLL	0.0	Rep Stress Incr YES		WB	0.50	Horz(CT)	0.03	14	n/a	n/a			
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S						Weight: 95 lb		FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 19=0-3-8, 13=Mechanical, 14=0-5-8
Max Uplift 13=-651(LC 3)
Max Grav 19=790(LC 3), 14=2099(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2025/0, 3-4=-2025/0, 4-5=-2144/0, 5-6=-2144/0, 6-7=-450/0, 7-9=-450/0, 9-10=0/2322, 10-11=0/2323
BOT CHORD 18-19=0/1254, 16-18=0/2284, 15-16=0/1494, 14-15=-1116/0, 13-14=-1282/0
WEBS 2-19=-1423/0, 2-18=0/879, 4-18=-296/0, 6-16=0/745, 6-15=-1193/0, 9-15=0/1771, 9-14=-1593/0, 11-13=0/1464, 11-14=-1436/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 651 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.



March 1,2022

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

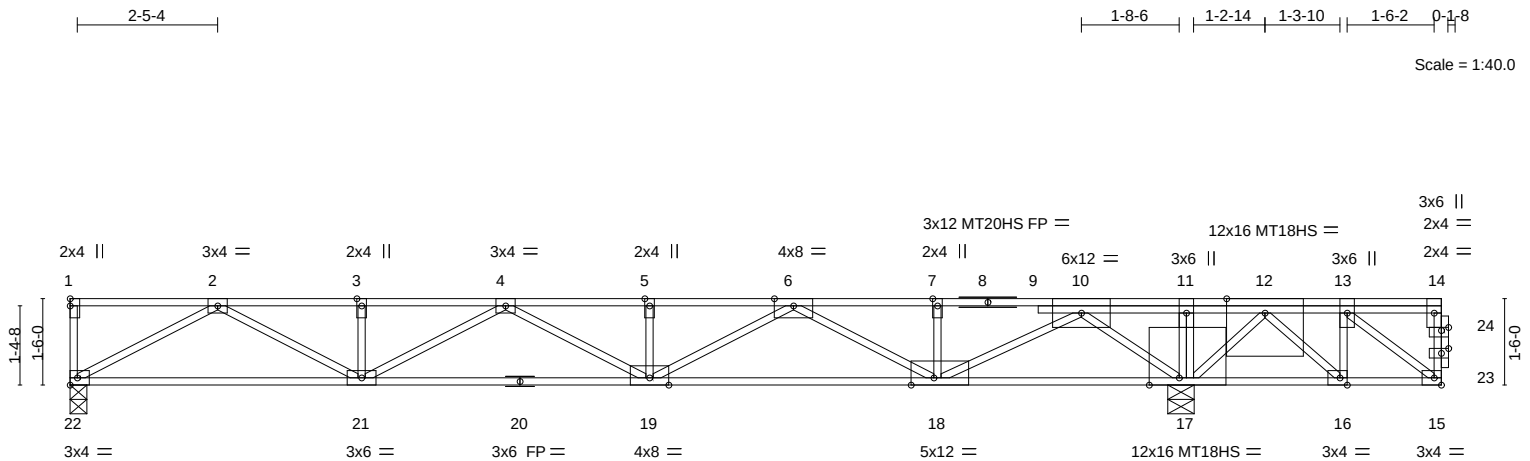


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0479053
J220198-G03F	F28G	FLOOR SPECIAL	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:53 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-EKXNZP56aQGvpe9yGxIReEYm7CdWIkAJhCm0nkzgdgW



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

Plate Offsets (X,Y)--	[16:0-1-8,Edge], [17:0-6-4,Edge], [18:0-4-12,Edge], [23:0-1-8,0-1-0], [24:0-1-8,0-0-10]
-----------------------	---

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.56	Vert(LL)	-0.16	19	>999	480	MT20 197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.81	Vert(CT)	0.12	19	>999	360	MT20HS 148/108
BCLL 0.0	Rep Stress Incr	NO	WB 0.77	Horz(CT)	-0.05	17	n/a	n/a	MT18HS 197/144
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						Weight: 105 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat) *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
15-20: 2x4 SPF 2100F 1.8E(flat)	
WEBS 2x4 SPF No.2(flat) *Except*	
12-17: 2x4 DF 2400F 2.0E(flat)	

REACTIONS. (size) 22=0-3-8, 17=0-5-8
Max Grav 22=587(LC 3), 17=6809(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1275/223, 3-4=-1275/223, 4-5=-679/1333, 5-6=-679/1333, 6-7=0/3277, 7-10=0/3277, 10-11=0/5841, 11-12=0/5839
BOT CHORD 21-22=-26/860, 19-21=-701/1176, 18-19=-2236/0, 17-18=-4717/0, 16-17=-422/0
WEBS 2-22=-981/29, 2-21=-226/474, 4-21=0/545, 4-19=-721/0, 6-19=0/1204, 6-18=-1648/0, 10-18=0/2340, 10-17=-2141/0, 13-16=-323/0, 12-17=-7495/0, 12-16=0/482, 11-17=-342/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-14=-87, 15-22=-13
Concentrated Loads (lb)
Vert: 12=-5000
- Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-14=-87, 15-22=-13
Concentrated Loads (lb)
Vert: 12=-5000



March 1, 2022

Continued on page 2

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

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03F	F28G	FLOOR SPECIAL	3	1	I50479053

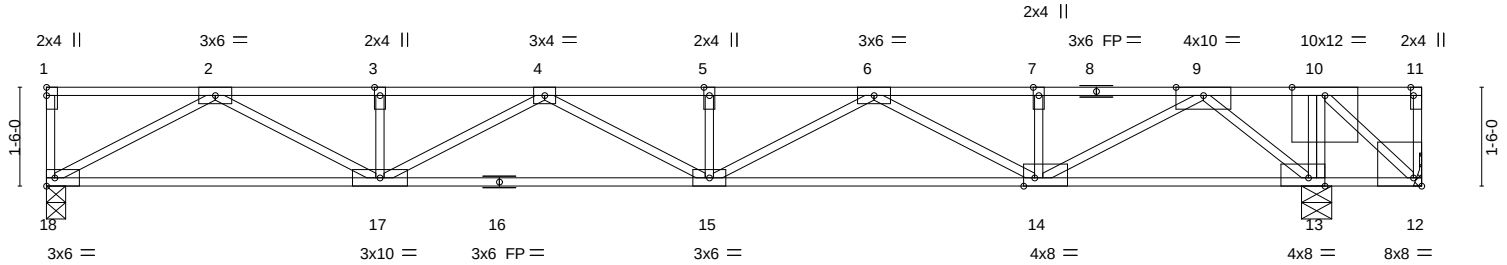
Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.

Mon Feb 28 10:54:53 2022 Page 2
 ID:6EjRsZEEA1occ44RuFMRXLy93I1-EKXNZP56aQGvpe9yGxIReEYm7CdWIkAJhCm0nkzgdgW

- LOAD CASE(S)** Standard
- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 1-11=-87, 11-14=-33, 15-22=-13
 - Concentrated Loads (lb)
 - Vert: 12=-5000
 - 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 1-11=-33, 11-14=-87, 15-22=-13
 - Concentrated Loads (lb)
 - Vert: 12=-5000
 - 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 1-11=-87, 11-14=-33, 15-22=-13
 - Concentrated Loads (lb)
 - Vert: 12=-5000
 - 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 1-11=-33, 11-14=-87, 15-22=-13
 - Concentrated Loads (lb)
 - Vert: 12=-5000

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479054
J220198-G03F	F29	Floor	18	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:53 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXly9311-EKXNZP56aQGvpe9yGxlReEYjNCEclj3JhCm0nkzgdgW

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

										19-3-6												20-10-8	
										19-3-6												1-7-2	
Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:Edge,0-1-8], [13:0-3-0,Edge], [14:0-2-0,Edge]																							
LOADING (psf)		SPACING- 1-4-0				CSI.				DEFL. in (loc) l/defl L/d				PLATES				GRIP					
TCLL	40.0	Plate Grip DOL 1.00				TC 0.73				Vert(LL) -0.12 15-17 >999 480				MT20				197/144					
TCDL	25.0	Lumber DOL 1.00				BC 0.74				Vert(CT) -0.24 15-17 >968 360													
BCLL	0.0	Rep Stress Incr YES				WB 0.84				Horz(CT) 0.04 13 n/a n/a													
BCDL	10.0	Code IBC2018/TPI2014				Matrix-S												Weight: 84 lb FT = 20%F, 11%E					

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)

BRACING-

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

REACTIONS.

(size) 12=Mechanical, 13=0-5-8, 18=0-3-8
Max Uplift 12=-1996(LC 3)
Max Grav 13=3231(LC 1), 18=799(LC 3)

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

TOP CHORD 2-3=-2045/0, 3-4=-2045/0, 4-5=-2220/0, 5-6=-2220/0, 6-7=-584/0, 7-9=-584/0,
9-10=0/2223
BOT CHORD 17-18=0/1246, 15-17=0/2332, 14-15=0/1598, 13-14=-943/0, 12-13=-2223/0
WEBS 10-13=-2155/0, 2-18=-1421/0, 2-17=0/912, 4-17=-327/0, 6-15=0/709, 6-14=-1158/0,
9-14=0/1742, 9-13=-1641/0, 10-12=0/2987

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1996 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.



March 1, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479055
J220198-G03F	F29G	Floor Girder	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

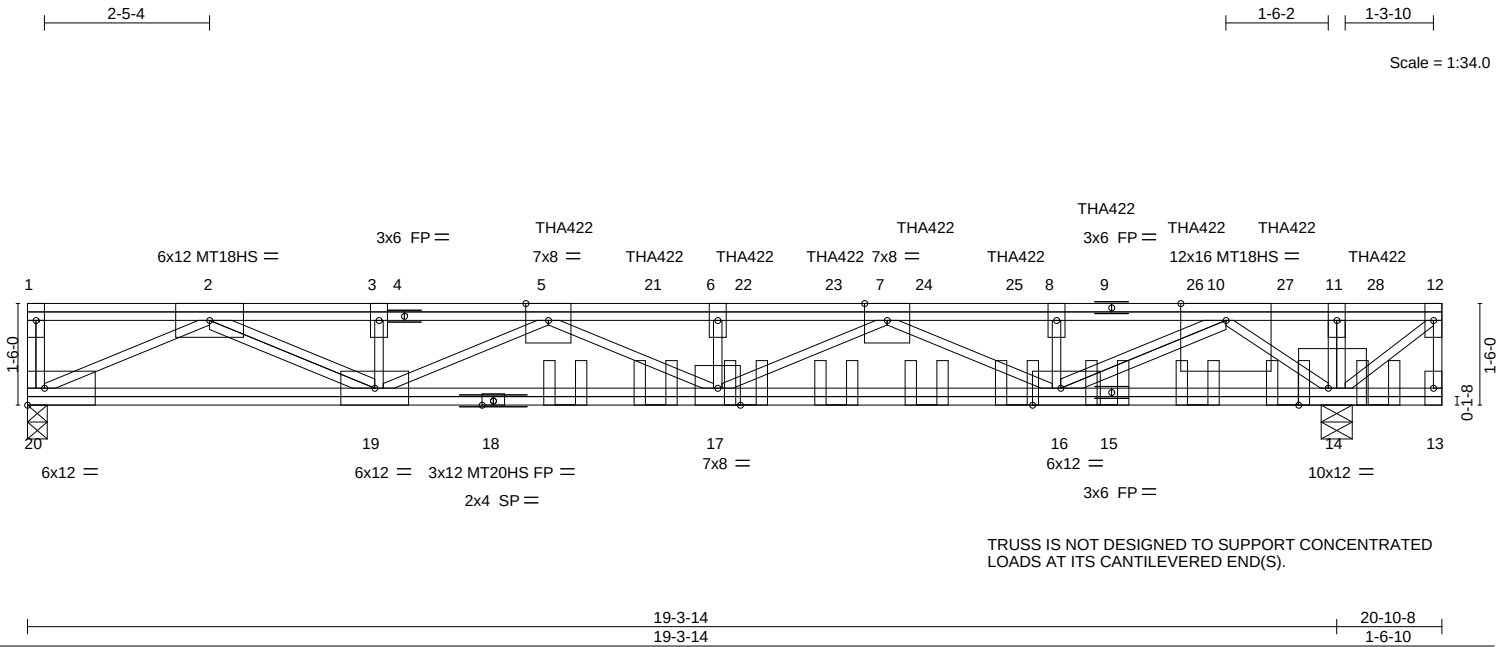
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:55 2022 Page 1
ID:6EjRsZEEA1occ44RuFMRXLY931l-Ajf7z46M52Wd2xJKOMKvjfd?1?Ljmccc9Wf7sdzgdgU

Plate Offsets (X,Y)-- [14:0-5-4,Edge], [16:0-5-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.98	Vert(LL)	-0.29	17	>798	480	MT20	197/144
TCDL 25.0	Lumber DOL	1.00	BC 0.70	Vert(CT)	-0.55	17	>416	360	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	NO	WB 0.90	Horz(CT)	0.08	14	n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						Weight: 139 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)

BOT CHORD 2x4 SPF 2100F 1.8E(flat) *Except*

15-20: 2x4 DF 2400F 2.0E(flat), 13-15: 2x4 SPF No.2(flat)

WEBS 2x4 SPF No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-7 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 20=0-3-8, 14=0-5-8

Max Grav 20=2153(LC 3), 14=3614(LC 1)

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

TOP CHORD 2-3=-7110/0, 3-5=-7130/0, 5-6=-10599/0, 6-7=-10599/0, 7-8=-7485/0, 8-10=-7431/0

BOT CHORD 19-20=0/4125, 17-19=0/9570, 16-17=0/9892, 14-16=0/3622

WEBS 11-14=-736/0, 2-20=-4563/0, 2-19=0/3385, 3-19=-306/0, 5-19=-2710/0, 5-17=0/1200, 6-17=-782/0, 7-17=0/798, 7-16=-2681/0, 8-16=-820/0, 10-16=0/4340, 10-14=-4562/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 18 = 11%
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Use Simpson Strong-Tie THA422 (6-16d Truss) or equivalent spaced at 1-4-0 oc max. starting at 7-11-4 from the left end to 19-11-4 to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
- Vert: 13-20=-20, 1-12=-130
- Concentrated Loads (lb)
- Vert: 9=-257(B) 5=-257(B) 21=-257(B) 22=-257(B) 23=-257(B) 24=-257(B) 25=-257(B) 26=-257(B) 27=-257(B) 28=-350(B)



March 1, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479056
J220198-G03F	L11	Floor Supported Gable	1	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:55 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-Ajf7z46M52Wd2xJKOMKvjfdD1?VLmqJc9WF7sdzgdgU

0-1-8

0-1-8

Scale = 1:40.1

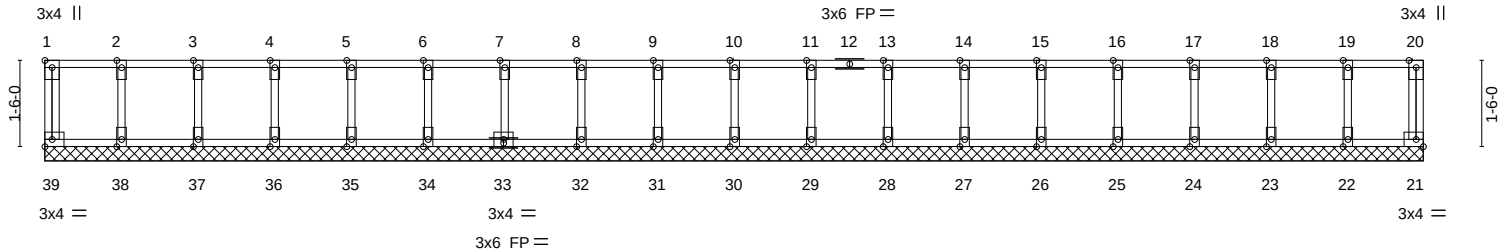


Plate Offsets (X,Y)-- [1:Edge,0-1-8]		23-11-12		23-11-12	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	in (loc) l/defl L/d	GRIP
TCDL 25.0	Lumber DOL	1.00	BC 0.02	Vert(LL) n/a - n/a 999	MT20 197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Vert(CT) n/a - n/a 999	
BCDL 10.0	Code IBC2018/TPI2014		Matrix-R	Horz(CT) 0.00 21 n/a n/a	Weight: 85 lb FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 SPF No.2(flat)
OTHERS 2x4 SPF No.2(flat)

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

REACTIONS. All bearings 23-11-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 39, 21, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

NOTES-

- 1) All plates are 2x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 1,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479057
J220198-G03F	L21	Floor Supported Gable	3	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:54:56 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy9311-evDVBQ7_sLeUg5uXy3r8GsAOLPqcVHYmOA_gO3zgdgT

0-1-8

0-1-8

Scale = 1:39.8

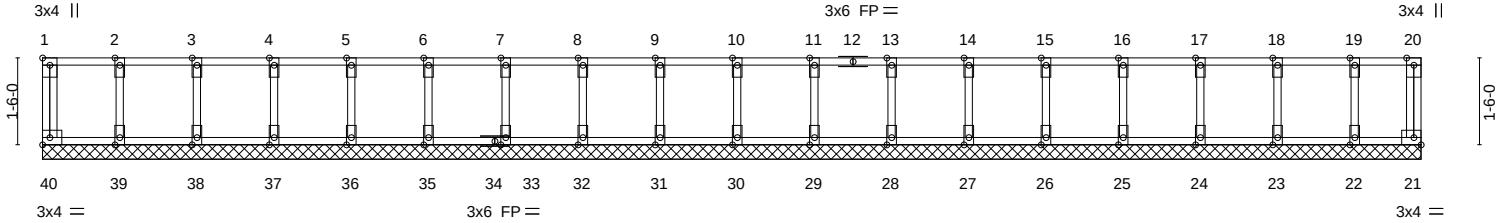


Plate Offsets (X,Y)-- [1:Edge,0-1-8]		23-9-12		23-9-12	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	in (loc) l/defl L/d	GRIP
TCDL 25.0	Lumber DOL	1.00	BC 0.02	Vert(LL) n/a - n/a 999	MT20 197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Vert(CT) n/a - n/a 999	
BCDL 10.0	Code IBC2018/TPI2014		Matrix-R	Horz(CT) 0.00 21 n/a n/a	Weight: 84 lb FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SPF No.2(flat)
 WEBS 2x4 SPF No.2(flat)
 OTHERS 2x4 SPF No.2(flat)

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

REACTIONS. All bearings 23-9-12.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

NOTES-

- 1) All plates are 2x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 1, 2022

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

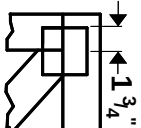
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



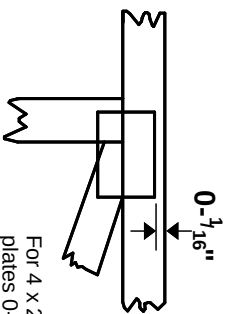
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless X, Y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

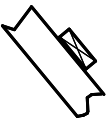
*** Plate location details available in MITek 20120 software or upon request.**

PLATE SIZE

4 X 4

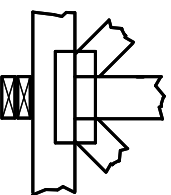
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



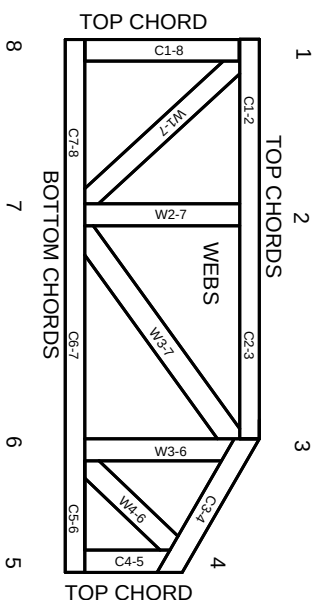
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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Mitek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



RE: J220198-G03R - Brinkmann Constructors

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200**Site Information:**

Project Customer: Valued customer Project Name: BRINKMANN CONSTRUCTORS

Lot/Block: Subdivision:

Model: 45psf

Address: 2100 NW Lowenstein Dr -bdc

City: Lee Summit State: Mo

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IBC2018/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16 Wind Speed: 115 mph

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Roof Load: 40.0 psf

Floor Load: N/A psf

Mean Roof Height (feet): 25

Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I50479061	J02	3/1/22	35	I50479095	T34	3/1/22
2	I50479062	T01	3/1/22	36	I50479096	T35	3/1/22
3	I50479063	T02	3/1/22	37	I50479097	T36	3/1/22
4	I50479064	T03	3/1/22	38	I50479098	T37	3/1/22
5	I50479065	T04	3/1/22	39	I50479099	T38	3/1/22
6	I50479066	T05	3/1/22	40	I50479100	T39	3/1/22
7	I50479067	T06	3/1/22	41	I50479101	T40	3/1/22
8	I50479068	T07	3/1/22	42	I50479102	T41	3/1/22
9	I50479069	T08	3/1/22	43	I50479103	T42	3/1/22
10	I50479070	T09	3/1/22	44	I50479104	T43	3/1/22
11	I50479071	T10	3/1/22	45	I50479105	T44	3/1/22
12	I50479072	T11	3/1/22	46	I50479106	T45	3/1/22
13	I50479073	T12	3/1/22	47	I50479107	T46	3/1/22
14	I50479074	T13	3/1/22	48	I50479108	T47	3/1/22
15	I50479075	T14	3/1/22	49	I50479109	T48	3/1/22
16	I50479076	T15	3/1/22	50	I50479110	T49	3/1/22
17	I50479077	T16	3/1/22	51	I50479111	T52	3/1/22
18	I50479078	T17	3/1/22	52	I50479112	TGE01	3/1/22
19	I50479079	T18	3/1/22	53	I50479113	TGE02	3/1/22
20	I50479080	T19	3/1/22	54	I50479114	TGE03	3/1/22
21	I50479081	T20	3/1/22	55	I50479115	TGE04	3/1/22
22	I50479082	T21	3/1/22	56	I50479116	TGE05	3/1/22
23	I50479083	T22	3/1/22	57	I50479117	TGE06	3/1/22
24	I50479084	T23	3/1/22	58	I50479118	TGE07	3/1/22
25	I50479085	T24	3/1/22	59	I50479119	TGE08	3/1/22
26	I50479086	T25	3/1/22	60	I50479120	TGE09	3/1/22
27	I50479087	T26	3/1/22	61	I50479121	TGE10	3/1/22
28	I50479088	T27	3/1/22	62	I50479122	TGE11	3/1/22
29	I50479089	T28	3/1/22	63	I50479123	TGE12	3/1/22
30	I50479090	T29	3/1/22	64	I50479124	TGE13	3/1/22
31	I50479091	T30	3/1/22	65	I50479125	TGE14	3/1/22
32	I50479092	T31	3/1/22	66	I50479126	TGE15	3/1/22
33	I50479093	T32	3/1/22	67	I50479127	TGE16	3/1/22
34	I50479094	T33	3/1/22	68	I50479128	TGE17	3/1/22

SHOP DRAWING REVIEWREVIEW IS FOR GENERAL COMPLIANCE
WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR
CORRECTNESS OF DIMENSIONS OR DETAILS

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 03/08/2022 BY: cb

REVIEWED ☐

DATE RECEIVED:

REVIEWED AS NOTED ☒

DATE REVIEWED: 3/14/2022

REVISE AND RESUBMIT ☐

REVIEWED BY: michaela.silva

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

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Mill Creek Truss, LLC.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2023.

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



March 1, 2022



RE: J220198-G03R - Brinkmann Constructors

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

No.	Seal#	Truss Name	Date
69	I50479129	TGE18	3/1/22
70	I50479130	TGE19	3/1/22
71	I50479131	TGE20	3/1/22
72	I50479132	TGE21	3/1/22
73	I50479133	TGE22	3/1/22
74	I50479134	TGE23	3/1/22

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	J02	Jack-Closed	52	1	IS0479061

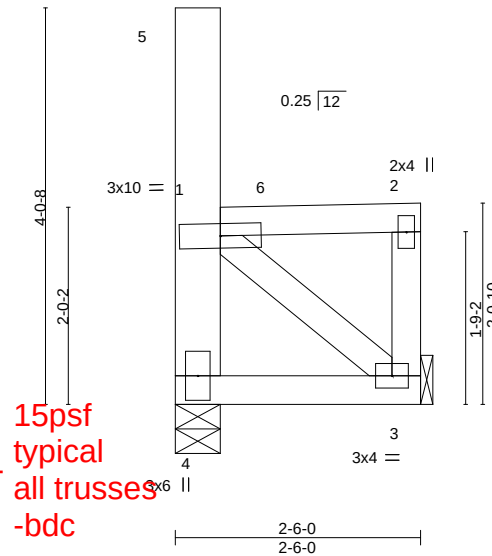
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:24 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLY9311-Xx4b6XwaGbYwik1zfTPaomK8piNU3wTtqXm9NRzgdg1

2-6-0
2-6-0

Scale = 1:23.5



15psf
typical
all trusses
-bdc

LOADING (psf)		SPACING-		CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.20	Vert(LL)	-0.00	3-4	>999	240	197/144
Snow (Pl/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	3-4	>999	180	
TCDL	10.0	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	3	n/a	n/a	
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MP							
BCDL	10.0									Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-

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

REACTIONS.

(size) 4=0-5-8, 3=Mechanical
Max Horz 4=162(LC 11)
Max Uplift 4=-163(LC 10), 3=-158(LC 11)
Max Grav 4=206(LC 13), 3=189(LC 12)

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

TOP CHORD 1-4=-195/545
BOT CHORD 3-4=-343/522
WEBS 1-3=-624/411

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 4 and 158 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1,2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	J02	Jack-Closed	52	1	I50479061

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:25 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-?7ezJtwC1vgnJtc9CAwpL_tJZ5jjoNj12BWiwuzgdg0

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 2-6=-60, 3-4=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-6=-60
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-50, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-6=-50
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-41, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-56-to-6=-41
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 2-6=-20, 3-4=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-6=-20
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=98, 3-4=-12
Horz: 1-4=27, 1-5=139, 1-2=-110, 2-3=42
Trapezoidal Loads (plf)
Vert: 1=83-to-6=98
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=98, 3-4=-12
Horz: 1-4=-42, 1-5=-70, 1-2=-110, 2-3=-27
Trapezoidal Loads (plf)
Vert: 1=83-to-6=98
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=-30, 1-5=46, 1-2=16, 2-3=-39
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 3-4=-20
Horz: 1-4=39, 1-5=-70, 1-2=16, 2-3=30
Trapezoidal Loads (plf)
Vert: 1=-51-to-6=-36
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=12, 1-5=50, 1-2=-28, 2-3=18
Trapezoidal Loads (plf)
Vert: 1=1-to-6=16
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=6, 3-4=-12
Horz: 1-4=-18, 1-5=-50, 1-2=-18, 2-3=-12
Trapezoidal Loads (plf)
Vert: 1=-9-to-6=6
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-3, 3-4=-20
Horz: 1-4=24, 1-5=50, 1-2=-17, 2-3=6
Trapezoidal Loads (plf)
Vert: 1=-18-to-6=-3
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-14, 3-4=-20
Horz: 1-4=-6, 1-5=-50, 1-2=-6, 2-3=-24
Trapezoidal Loads (plf)
Vert: 1=-29-to-6=-14
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=16, 3-4=-12
Horz: 1-4=7, 1-5=-33, 1-2=-28, 2-3=15
Trapezoidal Loads (plf)
Vert: 1=1-to-6=16
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	J02	Jack-Closed	52	1	I50479061

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:25 2022 Page 3

ID:6EjRszEEA1occ44RuFMRXLy93l1-?7ezJtwC1vgnJtc9CAwpL_tJZ5jjoNj12BWiwuzgdg0

LOAD CASE(S) Standard

- Uniform Loads (plf)
 - Vert: 2-6=6, 3-4=-12
 - Horz: 1-4=-15, 1-5=-33, 1-2=-18, 2-3=-7
- Trapezoidal Loads (plf)
 - Vert: 1=-9-to-6=6
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=16, 3-4=-12
 - Horz: 1-4=7, 1-5=-33, 1-2=-28, 2-3=15
 - Trapezoidal Loads (plf)
 - Vert: 1=1-to-6=16
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=6, 3-4=-12
 - Horz: 1-4=-15, 1-5=-33, 1-2=-18, 2-3=-7
 - Trapezoidal Loads (plf)
 - Vert: 1=-9-to-6=6
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-3, 3-4=-20
 - Horz: 1-4=-19, 1-5=-33, 1-2=-17, 2-3=4
 - Trapezoidal Loads (plf)
 - Vert: 1=-18-to-6=-3
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-14, 3-4=-20
 - Horz: 1-4=-4, 1-5=-33, 1-2=-6, 2-3=-19
 - Trapezoidal Loads (plf)
 - Vert: 1=-29-to-6=-14
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 - Uniform Loads (plf)
 - Vert: 2-6=-20, 3-4=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-35-to-6=-20
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-28, 3-4=-20
 - Horz: 1-4=18, 1-5=37, 1-2=-12, 2-3=5
 - Trapezoidal Loads (plf)
 - Vert: 1=-43-to-6=-28
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-36, 3-4=-20
 - Horz: 1-4=-5, 1-5=-37, 1-2=-5, 2-3=-18
 - Trapezoidal Loads (plf)
 - Vert: 1=-51-to-6=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-28, 3-4=-20
 - Horz: 1-4=14, 1-5=-25, 1-2=-12, 2-3=3
 - Trapezoidal Loads (plf)
 - Vert: 1=-43-to-6=-28
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-36, 3-4=-20
 - Horz: 1-4=-3, 1-5=-25, 1-2=-5, 2-3=-14
 - Trapezoidal Loads (plf)
 - Vert: 1=-51-to-6=-36
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-38, 3-4=-20
 - Horz: 1-4=18, 1-5=37, 1-2=-12, 2-3=5
 - Trapezoidal Loads (plf)
 - Vert: 1=-53-to-6=-38
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-45, 3-4=-20
 - Horz: 1-4=-5, 1-5=-37, 1-2=-5, 2-3=-18
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-6=-45
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-38, 3-4=-20
 - Horz: 1-4=14, 1-5=-25, 1-2=-12, 2-3=3
 - Trapezoidal Loads (plf)
 - Vert: 1=-53-to-6=-38

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Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	J02	Jack-Closed	52	1	I50479061

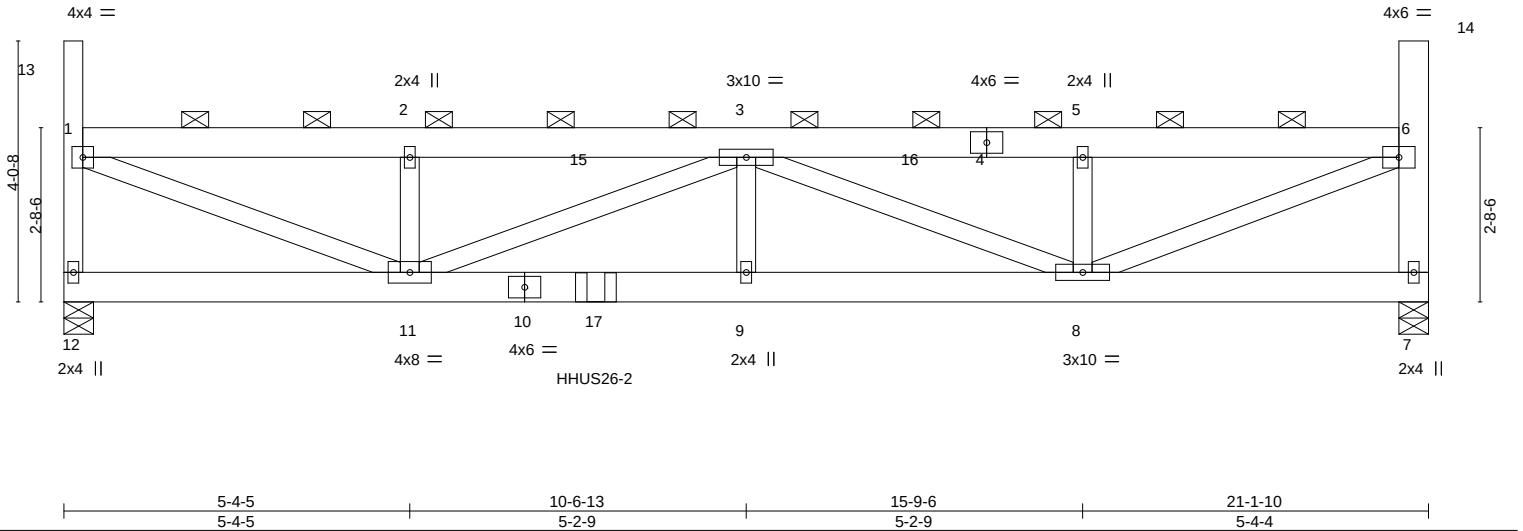
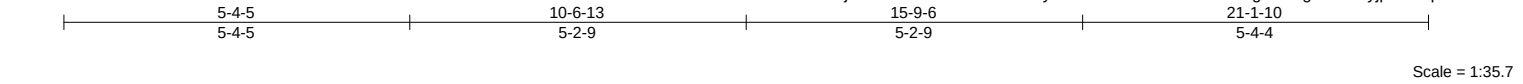
Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:25 2022 Page 4

ID:6EjRszEEA1occ44RuFMRXLy9311-?7ezJtwC1vgnJtc9CAwpL_tJZ5jjoNj12BWiwuzgdg0

- LOAD CASE(S)** Standard
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-45, 3-4=-20
- Horz: 1-4=-3, 1-5=-25, 1-2=-5, 2-3=-14
- Trapezoidal Loads (plf)
- Vert: 1=-60-to-6=-45
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 2-6=-60, 3-4=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-6=-60
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=-28, 3-4=-12
- Horz: 1-4=-16, 1-5=33, 1-2=16, 2-3=-16
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-6=-28
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 2-6=4, 3-4=-12
- Horz: 1-4=16, 1-5=33, 1-2=-16, 2-3=16
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-6=4

Job J220198-03F	Truss T01	Truss Type FLAT GIRDER	Qty 2	Ply 3	Brinkmann Constructors Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 03:54:28 2022 Page 1 ID:6EjRszEEA1occ44RuFMRXLy93I1-dm9cYvTeoKOTtdX2fgzITb0giJEkCRyjpKGLApzPSf	IS0479062
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Mill Creek Truss, Halstead, KS 67056, Mitek



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) 0.09 9-11 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.12 9-11 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 344 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x6 SPF 1650F 1.5E
 WEBS 2x4 SPF No.2 *Except*
 7-14: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 12=1521/0-5-8, 7=1284/0-5-8
 Max Horz 12=-198(LC 10)
 Max Uplift 12=-231(LC 11), 7=-180(LC 11)
 Max Grav 12=1581(LC 25), 7=1320(LC 2)

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

TOP CHORD 1-12=-1619/956, 1-2=-3572/1909, 2-15=-3572/1909, 3-15=-3572/1909, 3-16=-2468/1436,
 4-16=-2468/1436, 4-5=-2468/1436, 5-6=-2468/1436, 6-7=-1219/763
 BOT CHORD 11-12=-369/322, 10-11=-2526/4525, 10-17=-2526/4525, 9-17=-2526/4525,
 8-9=-2526/4525
 WEBS 1-11=-2016/3729, 2-11=-338/318, 3-11=-986/681, 3-9=-366/1115, 3-8=-2253/1172,
 5-8=-347/313, 6-8=-1533/2568

NOTES-

- 1) n/a
- 2) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 4) Unbalanced roof live loads have been considered for this design.
- 5) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 6) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 7) Provide adequate drainage to prevent water ponding.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 12 and 180 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1, 2022

Continued on page 2

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0479062
J220198-03F	T01	FLAT GIRDER	2	3	Job Reference (optional)	

Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 03:54:28 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-dm9cYvTeoKOTtdX2fgzITb0giJEkCRyjpKGLApzfPSf**NOTES-**

- 12) Load case(s) 1, 2, 3, 4, 5, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 8-2-14 from the left end to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-58, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1074(F)
Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 16=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-50, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-967(F)
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 16=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-48, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-944(F)
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 16=-48-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 15-16=-20, 7-12=-40
Concentrated Loads (lb)
Vert: 17=-829(F)
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 16=-20-to-6=-35
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Concentrated Loads (lb)
Vert: 17=61(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Concentrated Loads (lb)
Vert: 17=437(F)
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Concentrated Loads (lb)
Vert: 17=-1321(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 16=-3-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Concentrated Loads (lb)
Vert: 17=-634(F)
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 16=-3-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-03F	T01	FLAT GIRDER	2	3	IS0479062

Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 03:54:28 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy93l1-dm9cYvTeoKOTtdX2fgzITb0giJEkCRypjkGLApzfPSf**LOAD CASE(S)** Standard

- Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
- Concentrated Loads (lb)
Vert: 17=208(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
- Concentrated Loads (lb)
Vert: 17=208(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
- Concentrated Loads (lb)
Vert: 17=208(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
- Concentrated Loads (lb)
Vert: 17=208(F)
- Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 16=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
- Concentrated Loads (lb)
Vert: 17=-1092(F)
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 16=-3-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
- Concentrated Loads (lb)
Vert: 17=-1092(F)
- Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 16=-3-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
- Uniform Loads (plf)
Vert: 15-16=-20, 7-12=-20
- Concentrated Loads (lb)
Vert: 17=-553(F)
- Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 16=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Concentrated Loads (lb)
Vert: 17=-1520(F)
- Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Concentrated Loads (lb)
Vert: 17=-1005(F)
- Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Concentrated Loads (lb)
Vert: 17=-1348(F)

Continued on page 4

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

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0479062
J220198-03F	T01	FLAT GIRDER	2	3	Job Reference (optional)	

Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 03:54:28 2022 Page 4
ID:6EjRszEEA1occ44RuFMRXLy93l1-dm9cYvTeoKOTtdX2fgzITb0giJEkCRyjpKGLApzfPSf**LOAD CASE(S)** Standard

- Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1348(F)
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 16=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1544(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Concentrated Loads (lb)
Vert: 17=-1028(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1372(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 15-16=-38, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Concentrated Loads (lb)
Vert: 17=-1372(F)
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 16=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-1106(F)
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 16=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-50, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-967(F)
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 16=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 15-16=-50, 7-12=-20
Concentrated Loads (lb)
Vert: 17=-967(F)

Continued on page 5

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479062
J220198-03F	T01	FLAT GIRDER	2	3	Job Reference (optional)	

Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 03:54:28 2022 Page 5
ID:6EjRszEEA1occ44RuFMRXLy93l1-dm9cYvTeoKOTtdX2fgzITb0giJEkCRyjpKGLApzfPSf

LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-65-to-15=-50, 16=-50-to-6=-65

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



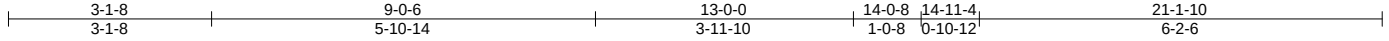
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479063
J220198-G03R	T02	Flat	2	1	Job Reference (optional)	

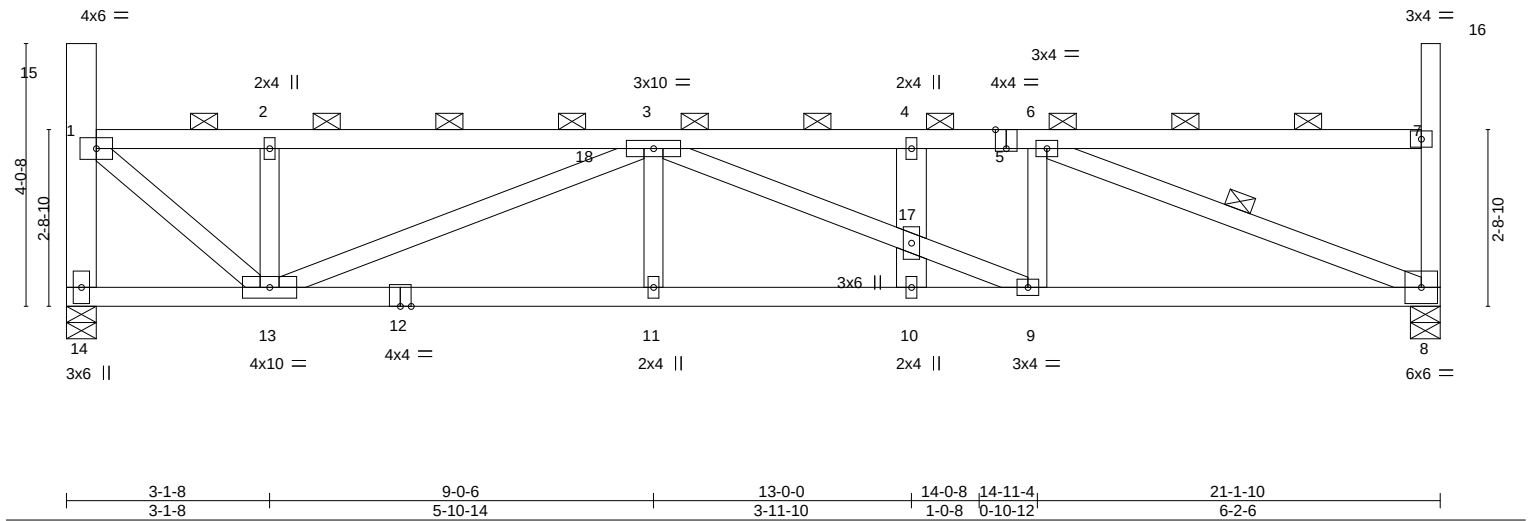
Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:28 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-PiJ5yuz4Kq2MALKKuITWzcVmoJcH?bFTI9kMWCzgdzfz



Scale = 1:35.4



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.11	10-11	>999	L/d	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.18	10-11	>999		180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.05	8	n/a		n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS								Weight: 94 lb	FT = 20%
BCDL	10.0												

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 14-15,10-17,4-17: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (4-2-5 max.): 1-15, 1-7, 7-16, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-5-5 oc bracing.
 WEBS 1 Row at midpt 6-8

REACTIONS.

(size) 14=0-5-8, 8=0-5-8
 Max Horz 14=195(LC 11)
 Max Uplift 14=-10(LC 10), 8=-10(LC 11)
 Max Grav 14=889(LC 2), 8=889(LC 2)

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

TOP CHORD 1-14=-870/462, 1-2=-978/577, 2-3=-978/577, 3-4=-1625/870, 4-6=-1625/870
 BOT CHORD 13-14=-332/359, 11-13=-1158/1877, 10-11=-1158/1877, 9-10=-1158/1877, 8-9=-904/1625
 WEBS 1-13=-677/1264, 2-13=-344/261, 3-13=-972/648, 3-17=-269/272, 9-17=-280/281,
 6-9=-61/321, 6-8=-1679/955

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 14 and 10 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-18=-58, 8-14=-20



March 1, 2022

Continued on page 2

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479063
J220198-G03R	T02	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:28 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-PiJ5yuz4Kq2MALKKuITWzcVmoJcH?bFTI9kMWCzgdz**LOAD CASE(S)** Standard

Trapezoidal Loads (plf)

Vert: 1=-73-to-18=-58, 4=-57-to-7=-73

- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-18=-60, 8-14=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-18=-50, 8-14=-20

Trapezoidal Loads (plf)

Vert: 1=-65-to-18=-50, 4=-50-to-7=-65

- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-18=-48, 8-14=-20

Trapezoidal Loads (plf)

Vert: 1=-63-to-18=-48, 4=-48-to-7=-63

- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 4-18=-20, 8-14=-40

Trapezoidal Loads (plf)

Vert: 1=-35-to-18=-20, 4=-20-to-7=-35

- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=58, 8-14=-12

Horz: 1-14=20, 1-15=91, 7-8=35, 7-16=56

Trapezoidal Loads (plf)

Vert: 1=43-to-18=58, 4=58-to-7=43

- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=58, 8-14=-12

Horz: 1-14=-35, 1-15=-56, 7-8=-20, 7-16=-91

Trapezoidal Loads (plf)

Vert: 1=43-to-18=58, 4=58-to-7=43

- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=-32, 8-14=-20

Horz: 1-14=-23, 1-15=36, 7-8=-32, 7-16=56

Trapezoidal Loads (plf)

Vert: 1=-47-to-18=-32, 4=-32-to-7=-47

- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=-32, 8-14=-20

Horz: 1-14=32, 1-15=-56, 7-8=23, 7-16=-36

Trapezoidal Loads (plf)

Vert: 1=-47-to-18=-32, 4=-32-to-7=-47

- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=16, 8-14=-12

Horz: 1-14=12, 1-15=50, 7-8=18, 7-16=33

Trapezoidal Loads (plf)

Vert: 1=1-to-18=16, 4=17-to-7=1

- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=16, 8-14=-12

Horz: 1-14=-18, 1-15=-33, 7-8=-12, 7-16=-50

Trapezoidal Loads (plf)

Vert: 1=1-to-18=16, 4=17-to-7=1

- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=-3, 8-14=-20

Horz: 1-14=24, 1-15=50, 7-8=6, 7-16=33

Trapezoidal Loads (plf)

Vert: 1=-18-to-18=-3, 4=-3-to-7=-18

- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=-3, 8-14=-20

Horz: 1-14=-6, 1-15=-33, 7-8=-24, 7-16=-50

Trapezoidal Loads (plf)

Vert: 1=-18-to-18=-3, 4=-3-to-7=-18

- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=16, 8-14=-12

Horz: 1-14=7, 1-15=-33, 7-8=15, 7-16=33

Trapezoidal Loads (plf)

Vert: 1=1-to-18=16, 4=17-to-7=1

Continued on page 3

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Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T02	Flat	2	1	IS0479063
					Job Reference (optional)

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.
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 Page 3
 ID:6EjRszEEA1occ44RuFMRXLy93I1-PiJ5yuz4Kq2MALKKuITWzcVmoJcH?bFTI9kMWCzgdz

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=16, 8-14=-12
 - Horz: 1-14=-15, 1-15=-33, 7-8=-7, 7-16=33
 - Trapezoidal Loads (plf)
 - Vert: 1=1-to-18=16, 4=17-to-7=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=16, 8-14=-12
 - Horz: 1-14=7, 1-15=-33, 7-8=15, 7-16=33
 - Trapezoidal Loads (plf)
 - Vert: 1=1-to-18=16, 4=17-to-7=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=16, 8-14=-12
 - Horz: 1-14=-15, 1-15=-33, 7-8=-7, 7-16=33
 - Trapezoidal Loads (plf)
 - Vert: 1=1-to-18=16, 4=17-to-7=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-3, 8-14=-20
 - Horz: 1-14=19, 1-15=-33, 7-8=4, 7-16=33
 - Trapezoidal Loads (plf)
 - Vert: 1=-18-to-18=-3, 4=-3-to-7=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-3, 8-14=-20
 - Horz: 1-14=-4, 1-15=-33, 7-8=-19, 7-16=33
 - Trapezoidal Loads (plf)
 - Vert: 1=-18-to-18=-3, 4=-3-to-7=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 - Uniform Loads (plf)
 - Vert: 4-18=-20, 8-14=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-35-to-18=-20, 4=-20-to-7=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-36, 8-14=-20
 - Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-51-to-18=-36, 4=-36-to-7=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-36, 8-14=-20
 - Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-51-to-18=-36, 4=-36-to-7=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-36, 8-14=-20
 - Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-51-to-18=-36, 4=-36-to-7=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-36, 8-14=-20
 - Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-51-to-18=-36, 4=-36-to-7=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-38, 8-14=-20
 - Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-53-to-18=-38, 4=-37-to-7=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-38, 8-14=-20
 - Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-53-to-18=-38, 4=-37-to-7=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-38, 8-14=-20
 - Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25

Continued on page 4

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T02	Flat	2	1	I50479063

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.
 Mon Feb 28 10:55:28 2022
 Page 4
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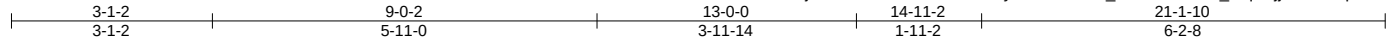
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-18=-38, 4=-37-to-7=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-18=-38, 8-14=-20
- Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
- Trapezoidal Loads (plf)
- Vert: 1=-53-to-18=-38, 4=-37-to-7=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-18=-60, 8-14=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-18=-60, 4=-60-to-7=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-18=-28, 8-14=-12
- Horz: 1-14=-16, 1-15=33, 7-8=-16, 7-16=33
- Trapezoidal Loads (plf)
- Vert: 1=-43-to-18=-28, 4=-28-to-7=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
- Vert: 4-18=4, 8-14=-12
- Horz: 1-14=16, 1-15=33, 7-8=16, 7-16=33
- Trapezoidal Loads (plf)
- Vert: 1=-11-to-18=4, 4=5-to-7=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-18=-60, 8-14=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-18=-60, 4=-60-to-7=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-18=-60, 8-14=-20
- Trapezoidal Loads (plf)
- Vert: 1=-75-to-18=-60, 4=-60-to-7=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-18=-50, 8-14=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-18=-50, 4=-50-to-7=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 4-18=-50, 8-14=-20
- Trapezoidal Loads (plf)
- Vert: 1=-65-to-18=-50, 4=-50-to-7=-65

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479064
J220198-G03R	T03	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:29 2022 Page 1

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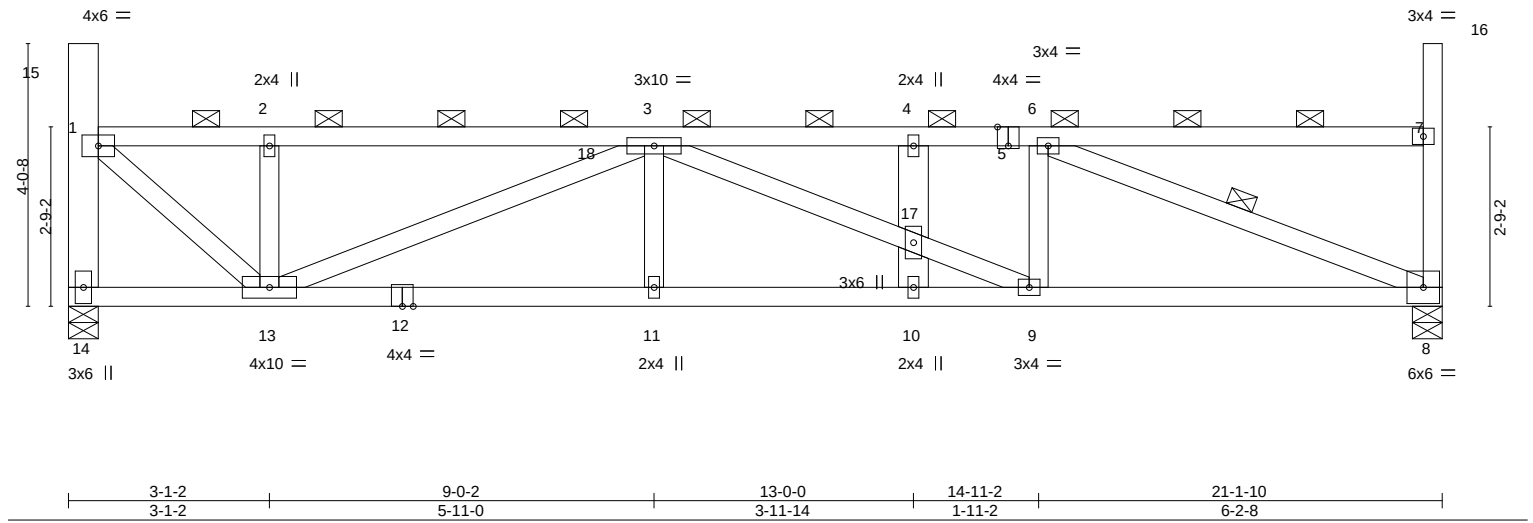


Plate Offsets (X,Y)-- [5:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) 0.11	10-11	>999	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.18	10-11	>999	180		
TCDL 10.0	Rep Stress Incr NO	WB 0.68	Horz(CT) 0.05	8	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-MS						
BCDL 10.0							Weight: 94 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 14-15,10-17,4-17: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (4-2-11 max.): 1-15, 1-7, 7-16, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-3-14 oc bracing.
 WEBS 1 Row at midpt 6-8

REACTIONS.

(size) 14=0-5-8, 8=0-5-8
 Max Horz 14=-193(LC 10)
 Max Uplift 14=-68(LC 10), 8=-68(LC 11)
 Max Grav 14=889(LC 29), 8=889(LC 29)

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

TOP CHORD 1-14=-871/519, 1-2=-954/615, 2-3=-954/615, 3-4=-1600/924, 4-6=-1600/924
 BOT CHORD 13-14=-327/351, 11-13=-1201/1845, 10-11=-1201/1845, 9-10=-1201/1845, 8-9=-960/1600
 WEBS 1-13=-733/1248, 2-13=-345/299, 3-13=-966/653, 3-17=-268/259, 9-17=-281/267,
 6-9=-47/332, 6-8=-1657/1007

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 14 and 68 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-18=-58, 8-14=-20



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T03	Flat	2	1	ISO479064

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:29 2022 Page 2

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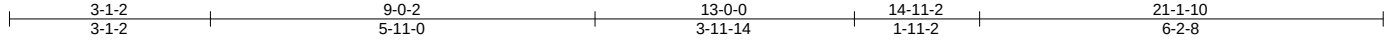
- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
 - Vert: 1=-73-to-18=-58, 4=-57-to-7=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-18=-48, 8-14=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-18=-48, 4=-48-to-7=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-36, 8-14=-20
 - Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-36, 8-14=-20
 - Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-36, 8-14=-20
 - Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-36, 8-14=-20
 - Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-18=-60, 8-14=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479065
J220198-G03R	T04	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:30 2022 Page 1

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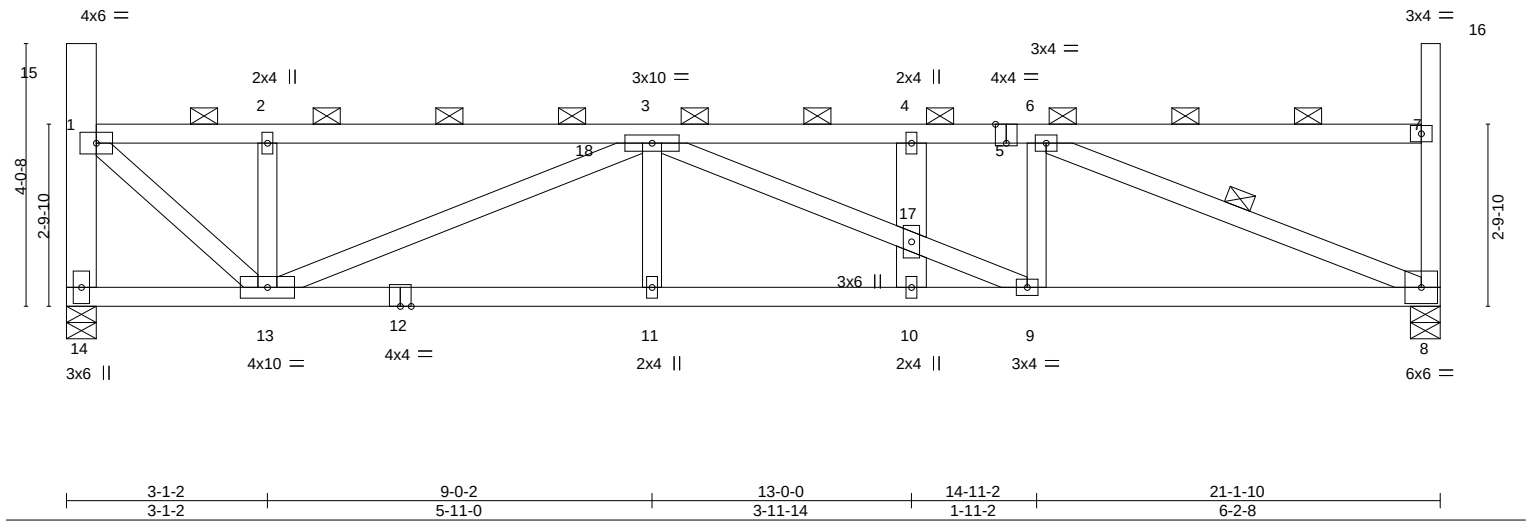


Plate Offsets (X,Y)-- [5:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) 0.11	10-11	>999	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.17	10-11	>999	180		
TCDL 10.0	Rep Stress Incr NO	WB 0.68	Horz(CT) 0.05	8	n/a	n/a		
BCLL 0.0 *	Code IBC2018/TP12014	Matrix-MS						
BCDL 10.0							Weight: 94 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 14-15,10-17,4-17: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (4-3-1 max.): 1-15, 1-7, 7-16, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-4-6 oc bracing.
 WEBS 1 Row at midpt 6-8

REACTIONS.

(size) 14=0-5-8, 8=0-5-8
 Max Horz 14=-191(LC 10)
 Max Uplift 14=-68(LC 10), 8=-68(LC 11)
 Max Grav 14=889(LC 29), 8=889(LC 29)

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

TOP CHORD 1-14=-871/519, 1-2=-938/605, 2-3=-938/605, 3-4=-1574/910, 4-6=-1574/910
 BOT CHORD 13-14=-321/344, 11-13=-1183/1815, 10-11=-1183/1815, 9-10=-1183/1815, 8-9=-946/1574
 WEBS 1-13=-725/1236, 2-13=-345/299, 3-13=-953/643, 3-17=-264/254, 9-17=-276/262,
 6-9=-46/332, 6-8=-1635/993

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 14 and 68 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-18=-58, 8-14=-20



March 1, 2022

Continued on page 2

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T04	Flat	2	1	IS0479065

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:30 2022 Page 2
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-73-to-18=-58, 4=-57-to-7=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-18=-48, 8-14=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-18=-48, 4=-48-to-7=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=-36, 8-14=-20

Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=-36, 8-14=-20

Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=-36, 8-14=-20

Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-18=-36, 8-14=-20

Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-18=-36, 4=-36-to-7=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-18=-60, 8-14=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479066
J220198-03F	T05	FLAT GIRDER	2	1	Job Reference (optional)	

Mill Creek Truss, Halstead, KS 67056, Mitek

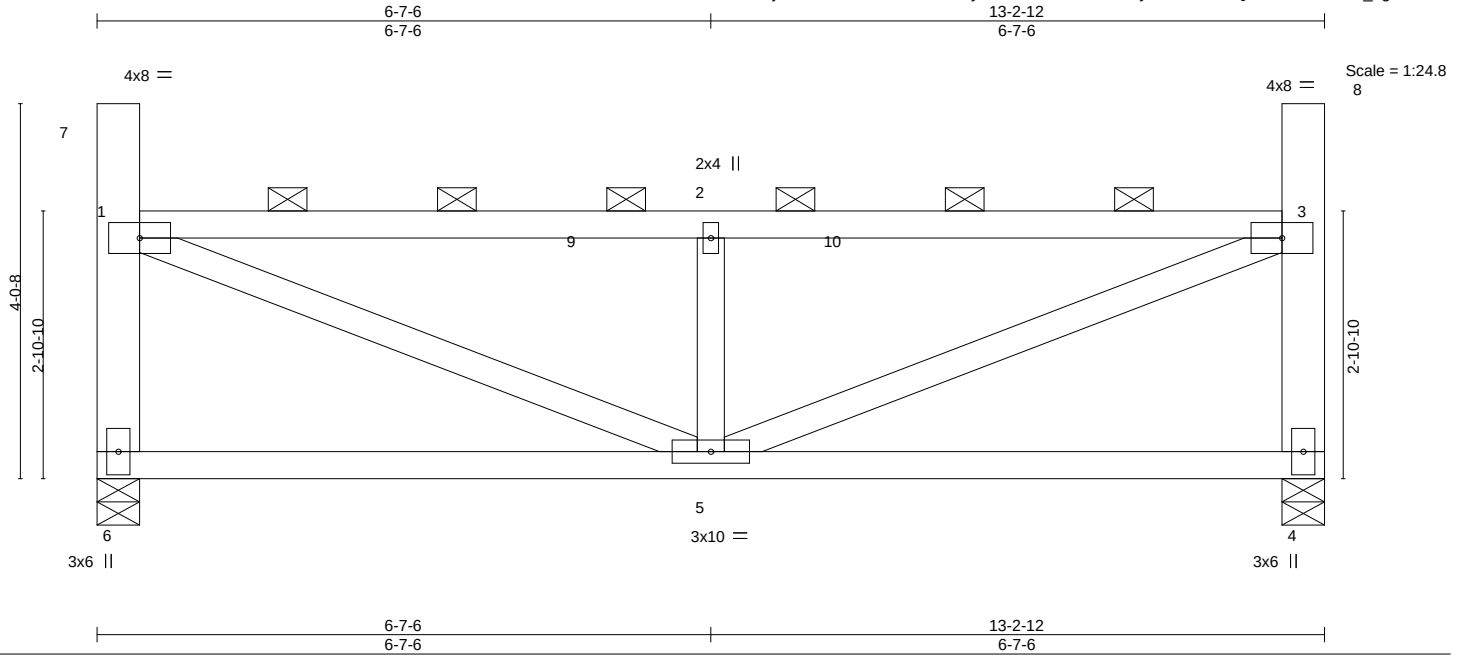
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 03:57:22 2022 Page 2
 ID:6EjRszEEA1occ44RuFMRXLy93I1-XEfN3OaopoJnlMqVrD5YXHDkxSY0z1WKqpQYHkzfPPx

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-18=-58, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 10=-56(F) 19=-56(F) 20=-56(F) 21=-56(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-73-to-18=-58, 4=-57-to-7=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-18=-48, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 10=-47(F) 19=-47(F) 20=-47(F) 21=-49(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-18=-48, 4=-48-to-7=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-36, 8-14=-20
 - Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
 - Concentrated Loads (lb)
 - Vert: 10=124(F) 19=124(F) 20=124(F) 21=-79(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-36, 8-14=-20
 - Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
 - Concentrated Loads (lb)
 - Vert: 10=124(F) 19=124(F) 20=124(F) 21=-52(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-36, 8-14=-20
 - Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
 - Concentrated Loads (lb)
 - Vert: 10=124(F) 19=124(F) 20=124(F) 21=-70(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-18=-36, 8-14=-20
 - Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
 - Concentrated Loads (lb)
 - Vert: 10=124(F) 19=124(F) 20=124(F) 21=-70(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-18=-36, 4=-36-to-7=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-18=-60, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 10=-56(F) 19=-56(F) 20=-56(F) 21=-58(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-18=-60, 4=-60-to-7=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479067
J220198-G03R	T06	Flat Structural Gable	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:32 2022 Page 1
ID:6EjRsZEEA1occ44RuFMRXly93l1-ITZcnG0bO2YofyeV78YSfQDw3bxRU3fniaf_zgdfv

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.56	Vert(LL) -0.04	5-6	>999	240	MT20	197/144
Snow (Pl/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT) -0.08	5-6	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.54	Horz(CT) -0.00	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 60 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 6-7,4-8: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (5-10-6 max.): 1-7, 1-3, 3-8, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-5-7 oc bracing.

REACTIONS.

(size) 6=0-5-8, 4=0-5-8
 Max Horz 6=-187(LC 10)
 Max Uplift 6=-5(LC 10), 4=-5(LC 11)
 Max Grav 6=569(LC 2), 4=569(LC 2)

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

TOP CHORD 1-6=-509/425, 1-2=-817/460, 2-3=-817/460, 3-4=-509/425
 BOT CHORD 5-6=-380/341
 WEBS 1-5=-674/813, 2-5=-477/461, 3-5=-676/813

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 6 and 5 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 9-10=-63, 4-6=-20
 Trapezoidal Loads (plf)
 Vert: 1=-73-to-9=-63, 10=-63-to-3=-73



March 1, 2022

Continued on page 2

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479067
J220198-G03R	T06	Flat Structural Gable	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:33 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXly9311-mg7_?c1D9MgfH6Digs3hggCbzKPqgukCuRS7BQzgdffu**LOAD CASE(S)** Standard

- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-65, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-9=-65, 10=-65-to-3=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-55, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-9=-55, 10=-55-to-3=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-10=-54, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-9=-54, 10=-54-to-3=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 9-10=-25, 4-6=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-9=-25, 10=-25-to-3=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=66, 4-6=-12
Horz: 1-6=22, 1-7=108, 3-4=37, 3-8=61
Trapezoidal Loads (plf)
Vert: 1=57-to-9=66, 10=66-to-3=57
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=66, 4-6=-12
Horz: 1-6=-37, 1-7=-61, 3-4=-22, 3-8=-108
Trapezoidal Loads (plf)
Vert: 1=57-to-9=66, 10=66-to-3=57
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-39, 4-6=-20
Horz: 1-6=-26, 1-7=39, 3-4=-34, 3-8=61
Trapezoidal Loads (plf)
Vert: 1=-48-to-9=-39, 10=-39-to-3=-48
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-39, 4-6=-20
Horz: 1-6=34, 1-7=-61, 3-4=26, 3-8=-39
Trapezoidal Loads (plf)
Vert: 1=-48-to-9=-39, 10=-39-to-3=-48
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=11, 4-6=-12
Horz: 1-6=12, 1-7=50, 3-4=18, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 10=11-to-3=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=11, 4-6=-12
Horz: 1-6=-18, 1-7=-33, 3-4=-12, 3-8=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 10=11-to-3=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-9, 4-6=-20
Horz: 1-6=24, 1-7=50, 3-4=6, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-9, 10=-9-to-3=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=-9, 4-6=-20
Horz: 1-6=-6, 1-7=-33, 3-4=-24, 3-8=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-9=-9, 10=-9-to-3=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-10=11, 4-6=-12
Horz: 1-6=7, 1-7=-33, 3-4=15, 3-8=33
Trapezoidal Loads (plf)
Vert: 1=1-to-9=11, 10=11-to-3=1
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479067
J220198-G03R	T06	Flat Structural Gable	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLy93I1-mg7_?c1D9MgfH6Digs3hggCbzKPqgukCuRS7BQzgdffu**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 9-10=11, 4-6=-12

Horz: 1-6=-15, 1-7=-33, 3-4=-7, 3-8=33

Trapezoidal Loads (plf)

Vert: 1=1-to-9=11, 10=11-to-3=1

- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 9-10=11, 4-6=-12

Horz: 1-6=7, 1-7=-33, 3-4=15, 3-8=33

Trapezoidal Loads (plf)

Vert: 1=1-to-9=11, 10=11-to-3=1

- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 9-10=11, 4-6=-12

Horz: 1-6=-15, 1-7=-33, 3-4=-7, 3-8=33

Trapezoidal Loads (plf)

Vert: 1=1-to-9=11, 10=11-to-3=1

- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 9-10=-9, 4-6=-20

Horz: 1-6=19, 1-7=-33, 3-4=4, 3-8=33

Trapezoidal Loads (plf)

Vert: 1=-18-to-9=-9, 10=-9-to-3=-18

- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 9-10=-9, 4-6=-20

Horz: 1-6=-4, 1-7=-33, 3-4=-19, 3-8=33

Trapezoidal Loads (plf)

Vert: 1=-18-to-9=-9, 10=-9-to-3=-18

- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 9-10=-25, 4-6=-20

Trapezoidal Loads (plf)

Vert: 1=-35-to-9=-25, 10=-25-to-3=-35

- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 9-10=-41, 4-6=-20

Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25

Trapezoidal Loads (plf)

Vert: 1=-51-to-9=-41, 10=-41-to-3=-51

- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 9-10=-41, 4-6=-20

Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37

Trapezoidal Loads (plf)

Vert: 1=-51-to-9=-41, 10=-41-to-3=-51

- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 9-10=-41, 4-6=-20

Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25

Trapezoidal Loads (plf)

Vert: 1=-51-to-9=-41, 10=-41-to-3=-51

- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 9-10=-41, 4-6=-20

Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25

Trapezoidal Loads (plf)

Vert: 1=-51-to-9=-41, 10=-41-to-3=-51

- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 9-10=-43, 4-6=-20

Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25

Trapezoidal Loads (plf)

Vert: 1=-53-to-9=-43, 10=-43-to-3=-53

- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 9-10=-43, 4-6=-20

Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37

Trapezoidal Loads (plf)

Vert: 1=-53-to-9=-43, 10=-43-to-3=-53

- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 9-10=-43, 4-6=-20

Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25

Trapezoidal Loads (plf)

Vert: 1=-53-to-9=-43, 10=-43-to-3=-53

Continued on page 4

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T06	Flat Structural Gable	2	1	ISO479067

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:33 2022 Page 4

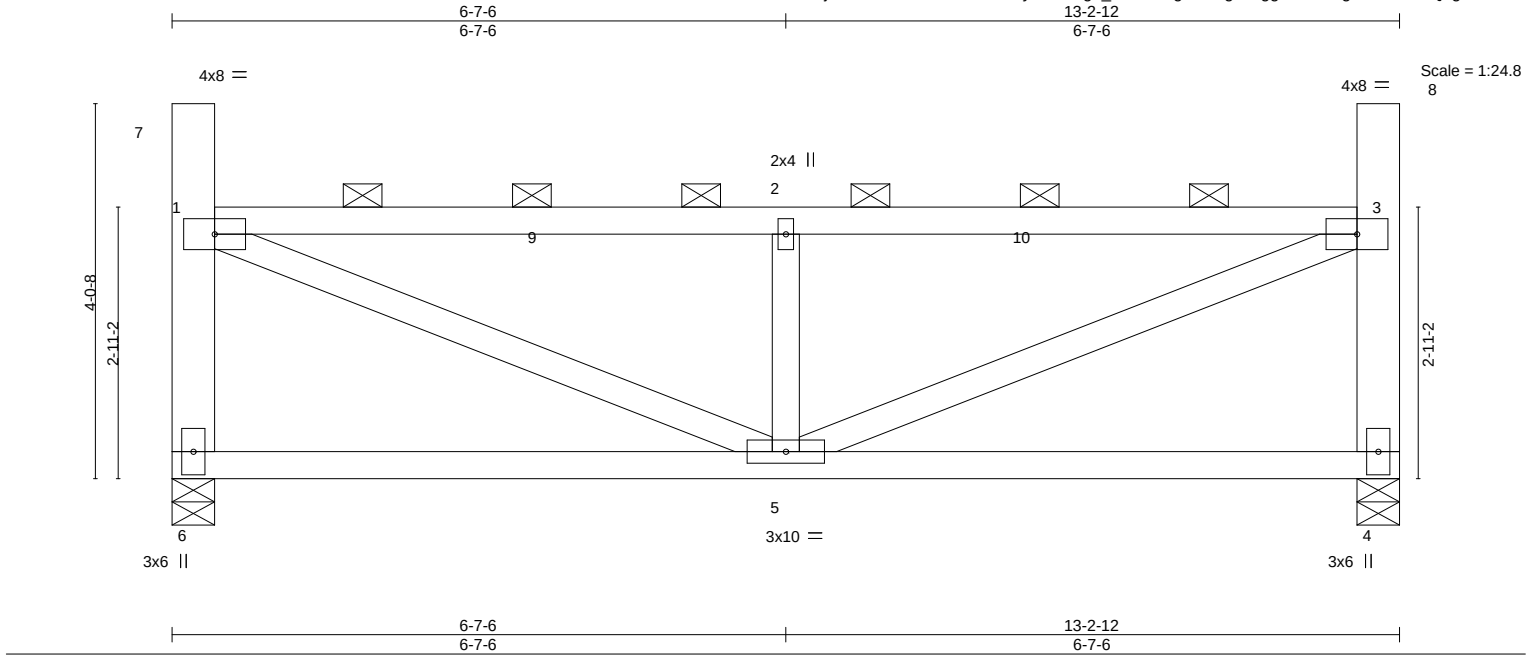
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LOAD CASE(S) Standard

- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 9-10=-43, 4-6=-20
 - Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-53-to-9=-43, 10=-43-to-3=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 9-10=-65, 4-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-9=-65, 10=-65-to-3=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 9-10=-34, 4-6=-12
 - Horz: 1-6=-16, 1-7=33, 3-4=-16, 3-8=33
 - Trapezoidal Loads (plf)
 - Vert: 1=-43-to-9=-34, 10=-34-to-3=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 9-10=-1, 4-6=-12
 - Horz: 1-6=16, 1-7=33, 3-4=16, 3-8=33
 - Trapezoidal Loads (plf)
 - Vert: 1=-11-to-9=-1, 10=-1-to-3=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 9-10=-65, 4-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-9=-65, 10=-65-to-3=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 9-10=-65, 4-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-9=-65, 10=-65-to-3=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 9-10=-55, 4-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-65-to-9=-55, 10=-55-to-3=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 9-10=-55, 4-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-65-to-9=-55, 10=-55-to-3=-65

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479068
J220198-G03R	T07	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:33 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXly93l1-mg7_?c1D9MgfH6Digs3hggCa1KPNgt?CuRS7BQzgdgu

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.62	Vert(LL)	-0.04	5-6	>999	MT20	197/144
Snow (Pl/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT)	-0.08	5-6	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.58	Horz(CT)	-0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 60 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 6-7,4-8: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-5-7 oc bracing.

REACTIONS.

(size) 6=0-5-8, 4=0-5-8
 Max Horz 6=-185(LC 10)
 Max Uplift 6=-63(LC 10), 4=-63(LC 11)
 Max Grav 6=539(LC 29), 4=539(LC 29)

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

TOP CHORD 1-6=-479/482, 1-2=-753/523, 2-3=-753/523, 3-4=-479/482
 BOT CHORD 1-6=-379/327
 WEBS 1-5=-730/750, 2-5=-437/513, 3-5=-732/750

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 6 and 63 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 9-10=-58, 4-6=-20
 Trapezoidal Loads (plf)
 Vert: 1=-73-to-9=-58, 10=-58-to-3=-73



March 1, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T07	Flat	2	1	ISO479068

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.

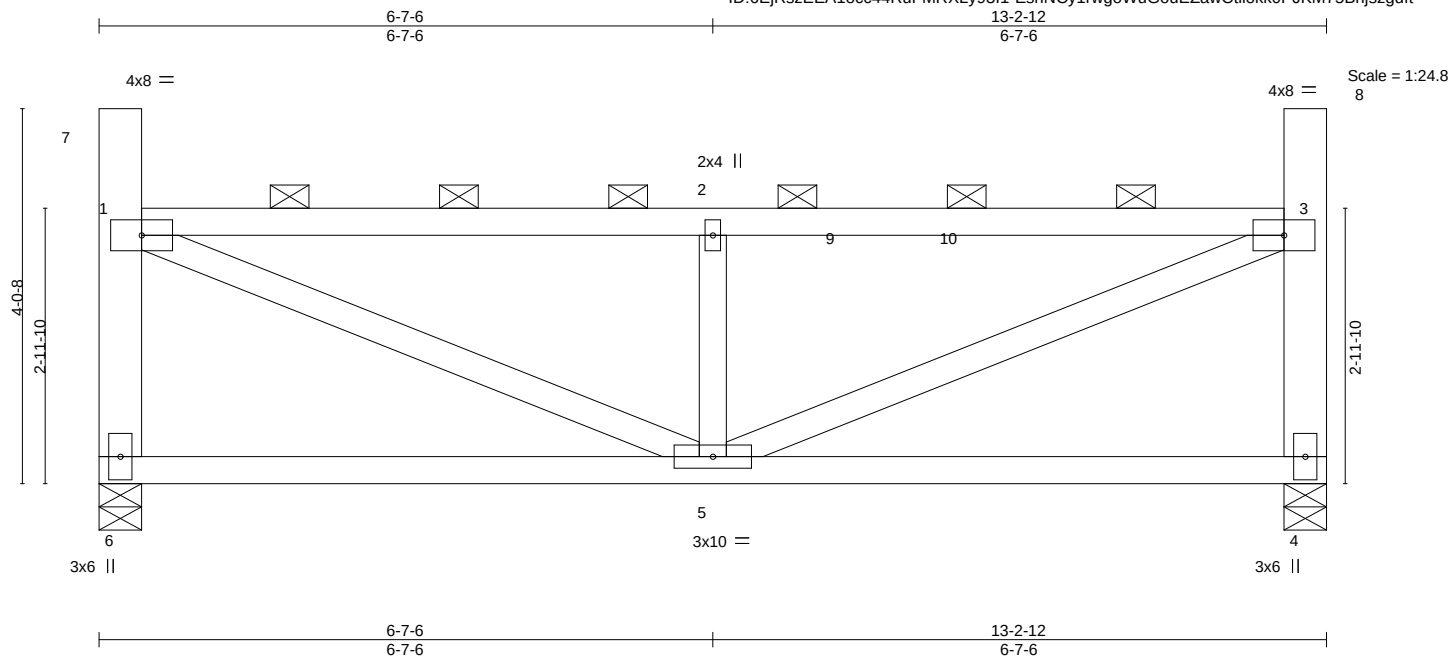
Mon Feb 28 10:55:33 2022 Page 2
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LOAD CASE(S) Standard

- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 9-10=-48, 4-6=-20
 Trapezoidal Loads (plf)
 Vert: 1=-60-to-9=-48, 10=-48-to-3=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 Uniform Loads (plf)
 Vert: 9-10=-36, 4-6=-20
 Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
 Trapezoidal Loads (plf)
 Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 Uniform Loads (plf)
 Vert: 9-10=-36, 4-6=-20
 Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
 Trapezoidal Loads (plf)
 Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 Uniform Loads (plf)
 Vert: 9-10=-36, 4-6=-20
 Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
 Trapezoidal Loads (plf)
 Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 Uniform Loads (plf)
 Vert: 9-10=-36, 4-6=-20
 Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
 Trapezoidal Loads (plf)
 Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 9-10=-60, 4-6=-20
 Trapezoidal Loads (plf)
 Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0479069
J220198-G03R	T08	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRsZEEA1occ44RuFMRXLy93l1-EshNCy1rwgoWuGouEZawCtll0kk0PJKM75Bhjszgdft

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.62	Vert(LL)	-0.04	5-6	>999	240	MT20	197/144
Snow (Pl/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT)	-0.08	5-6	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.58	Horz(CT)	-0.00	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 60 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 6-7,4-8: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, 3-8, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-6-9 oc bracing.

REACTIONS.

(size) 6=0-5-8, 4=0-5-8
 Max Horz 6=-182(LC 10)
 Max Uplift 6=-63(LC 10), 4=-63(LC 11)
 Max Grav 6=560(LC 29), 4=548(LC 29)

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

TOP CHORD 1-6=-500/481, 1-2=-767/516, 2-3=-767/516, 3-4=-488/481
 BOT CHORD 5-6=-372/321
 WEBS 1-5=-718/764, 2-5=-457/513, 3-5=-721/769

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 6 and 63 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 9-10=-58, 4-6=-20
 Trapezoidal Loads (plf)
 Vert: 1=-73-to-9=-58, 10=-58-to-3=-73



March 1, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T08	Flat	2	1	IS0479069

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.

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 ID:6EjRsZEEA1occ44RuFMRXLy93I1-EshNCy1rwgoWuGouEZawCtIlokk0PJKM75Bhjszgdf

- LOAD CASE(S)** Standard
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 9-10=-48, 4-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-9=-48, 10=-48-to-3=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 9-10=-36, 4-6=-20
 - Horz: 1-6=18, 1-7=37, 3-4=5, 3-8=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 9-10=-36, 4-6=-20
 - Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 9-10=-36, 4-6=-20
 - Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 9-10=-36, 4-6=-20
 - Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-9=-36, 10=-36-to-3=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 9-10=-60, 4-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-9=-60, 10=-60-to-3=-75

Job J220198-03F	Truss T09	Truss Type FLAT GIRDER	Qty 2	Ply 1	Brinkmann Constructors	150479070
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Mill Creek Truss, Halstead, KS 67056, Mitek

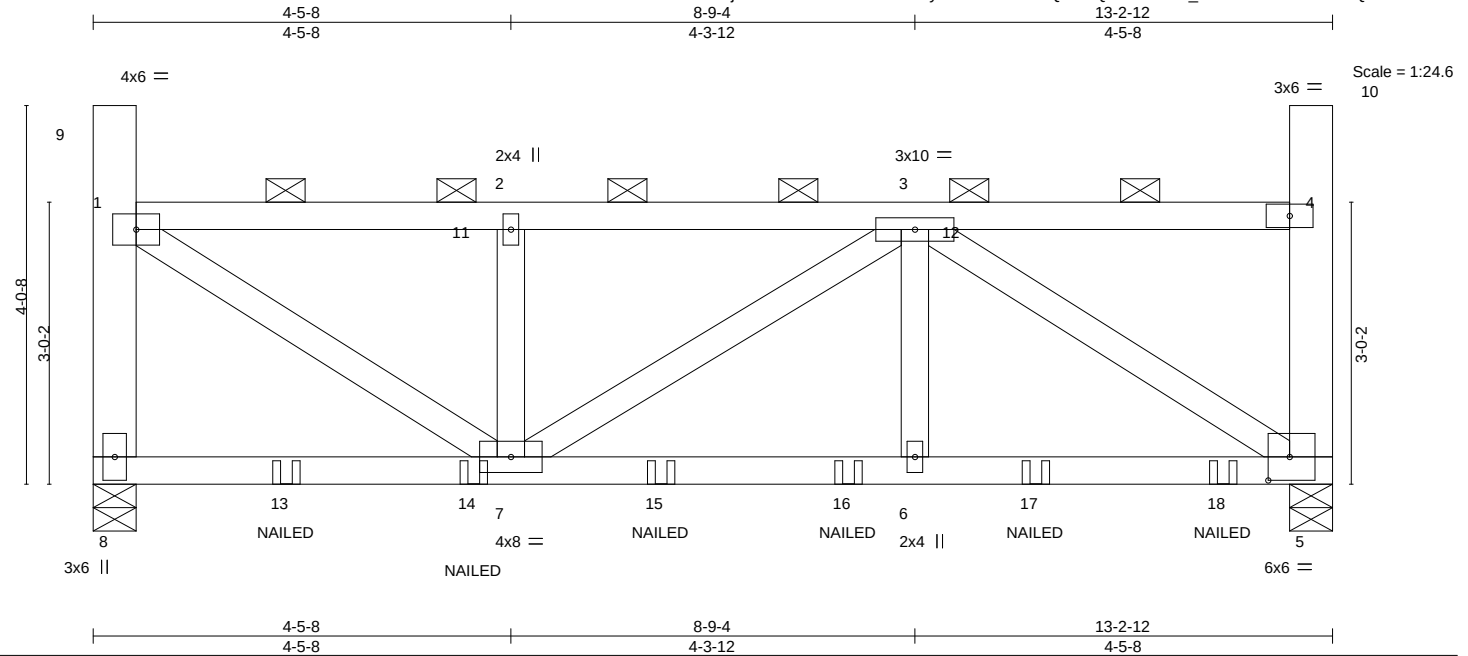
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Plate Offsets (X,Y)-- [5:0-2-12,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.30	Vert(LL)	0.05	6-7	>999	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.44	Vert(CT)	-0.05	6-7	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.44	Horz(CT)	0.01	5	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS							
BCDL 10.0	Code IBC2018/TPI2014								
								Weight: 64 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 8-9,5-10: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (5-11-6 max.): 1-9, 1-4, 4-10, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-10-3 oc bracing.

REACTIONS.

(lb/size) 8=780/0-5-8, 5=819/0-5-8
 Max Horz 8=-180(LC 12)
 Max Uplift 8=-400(LC 10), 5=-380(LC 11)
 Max Grav 8=795(LC 29), 5=837(LC 29)

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

TOP CHORD 1-8=-703/474, 1-11=-917/523, 2-11=-917/523, 2-3=-917/523
 BOT CHORD 8-13=-344/334, 13-14=-344/334, 7-14=-344/334, 7-15=-560/921, 15-16=-560/921,
 6-16=-560/921, 6-17=-560/921, 17-18=-560/921, 5-18=-560/921
 WEBS 1-7=-616/1040, 2-7=-271/321, 3-6=-204/293, 3-5=-1041/625

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 400 lb uplift at joint 8 and 380 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479070
J220198-03F	T09	FLAT GIRDER	2	1	Job Reference (optional)	

Mill Creek Truss, Halstead, KS 67056, Mitek

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 ID:6EjRszEEA1occ44RuFMRXLy93l1-ZlWwRzFQmh9QmKDzl8ZN_ut8SX3bF2MsehSkYQzfPMU

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 11-12=-58, 5-8=-20
 - Concentrated Loads (lb)
 - Vert: 13=-92(F) 14=-92(F) 15=-92(F) 16=-92(F) 17=-92(F) 18=-92(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-73-to-11=-58, 12=-58-to-4=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 11-12=-48, 5-8=-20
 - Concentrated Loads (lb)
 - Vert: 13=-78(F) 14=-78(F) 15=-78(F) 16=-78(F) 17=-78(F) 18=-81(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-11=-48, 12=-48-to-4=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 11-12=-36, 5-8=-20
 - Horz: 1-8=18, 1-9=37, 4-5=5, 4-10=25
 - Concentrated Loads (lb)
 - Vert: 13=74(F) 14=74(F) 15=74(F) 16=74(F) 17=74(F) 18=-131(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-11=-36, 12=-36-to-4=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 11-12=-36, 5-8=-20
 - Horz: 1-8=-5, 1-9=-25, 4-5=-18, 4-10=-37
 - Concentrated Loads (lb)
 - Vert: 13=74(F) 14=74(F) 15=74(F) 16=74(F) 17=74(F) 18=-86(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-11=-36, 12=-36-to-4=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 11-12=-36, 5-8=-20
 - Horz: 1-8=14, 1-9=-25, 4-5=3, 4-10=25
 - Concentrated Loads (lb)
 - Vert: 13=74(F) 14=74(F) 15=74(F) 16=74(F) 17=74(F) 18=-116(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-11=-36, 12=-36-to-4=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 11-12=-36, 5-8=-20
 - Horz: 1-8=-3, 1-9=-25, 4-5=-14, 4-10=25
 - Concentrated Loads (lb)
 - Vert: 13=74(F) 14=74(F) 15=74(F) 16=74(F) 17=74(F) 18=-116(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-11=-36, 12=-36-to-4=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 11-12=-60, 5-8=-20
 - Concentrated Loads (lb)
 - Vert: 13=-92(F) 14=-92(F) 15=-92(F) 16=-92(F) 17=-92(F) 18=-95(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-11=-60, 12=-60-to-4=-75

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0479071
J220198-03F	T10	JACK-CLOSED GIRDER	2	2	Job Reference (optional)	

Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:03:09 2022 Page 2
 ID:6EjRszEEA1occ44RuFMRXLy93I1-t?7Zu2nSSP1YthsBgbqw5T5hwKzVm6oPclzPz7zfPKW

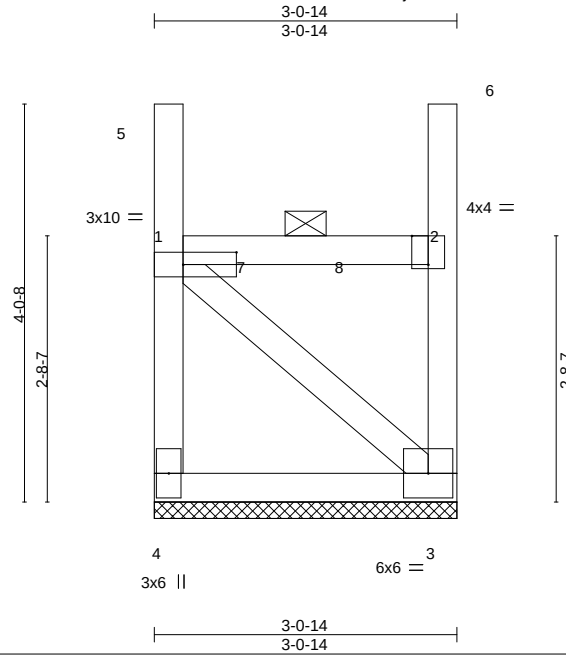
- NOTES-**
- Fill all nail holes where hanger is in contact with lumber.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 729 lb down and 475 lb up at 6-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-8=-48, 4-6=-20
 - Concentrated Loads (lb)
 - Vert: 5=-293(F) 9=-298(F) 10=-293(F) 11=-442(F)
 - Trapezoidal Loads (plf)
 - Vert: 8=-48-to-3=-63
- Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-8=-41, 4-6=-20
 - Concentrated Loads (lb)
 - Vert: 5=-254(F) 9=-259(F) 10=-254(F) 11=-397(F)
 - Trapezoidal Loads (plf)
 - Vert: 8=-41-to-3=-52
- Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 1-8=-28, 4-6=-20
 - Horz: 1-6=18, 1-3=-12, 3-4=5, 3-7=37
 - Concentrated Loads (lb)
 - Vert: 5=40(F) 9=35(F) 10=40(F) 11=-669(F)
 - Trapezoidal Loads (plf)
 - Vert: 8=-28-to-3=-40
- Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 1-8=-36, 4-6=-20
 - Horz: 1-6=-5, 1-3=-5, 3-4=-18, 3-7=-37
 - Concentrated Loads (lb)
 - Vert: 5=40(F) 9=35(F) 10=40(F) 11=-425(F)
 - Trapezoidal Loads (plf)
 - Vert: 8=-36-to-3=-47
- Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 1-8=-28, 4-6=-20
 - Horz: 1-6=14, 1-3=-12, 3-4=3, 3-7=25
 - Concentrated Loads (lb)
 - Vert: 5=40(F) 9=35(F) 10=40(F) 11=-588(F)
 - Trapezoidal Loads (plf)
 - Vert: 8=-28-to-3=-40
- Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 1-8=-36, 4-6=-20
 - Horz: 1-6=-3, 1-3=-5, 3-4=-14, 3-7=25
 - Concentrated Loads (lb)
 - Vert: 5=40(F) 9=35(F) 10=40(F) 11=-588(F)
 - Trapezoidal Loads (plf)
 - Vert: 8=-36-to-3=-47
- Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-8=-60, 4-6=-20
 - Concentrated Loads (lb)
 - Vert: 5=-293(F) 9=-298(F) 10=-293(F) 11=-522(F)
 - Trapezoidal Loads (plf)
 - Vert: 8=-60-to-3=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479072
J220198-G03R	T11	Flat Supported Gable	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:38 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXly93l1-7dwt2J5MzuJxNt5fTPfsNjvWCL9iLE8x2j9usdzgdfp

Scale = 1:23.4

Plate Offsets (X,Y)-- [1:0-6-8,0-1-8], [2:0-2-0,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.27	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P							
BCDL 10.0	Code IBC2018/TPI2014							Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, 2-6, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-6-2 oc bracing.

REACTIONS.

(size) 4=3-0-14, 3=3-0-14
 Max Horz 4=-196(LC 10)
 Max Uplift 4=-177(LC 10), 3=-177(LC 11)
 Max Grav 4=216(LC 22), 3=211(LC 21)

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

TOP CHORD 1-4=-313/587, 1-2=-252/212
 BOT CHORD 3-4=-483/494
 WEBS 1-3=-613/614

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 4 and 177 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard Except:

Continued on page 2



March 1, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T11	Flat Supported Gable	2	1	IS0479072

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:38 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-7dw2J5MzuJxNt5fTPfsNjvWCL9iLE8x2j9usdzgdfp

LOAD CASE(S) Standard Except:

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-73-to-7=-62, 7=-62-to-2=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-7=-53, 7=-53-to-8=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-36, 3-4=-20
Horz: 1-4=18, 1-5=37, 2-3=5, 2-6=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-7=-41, 7=-41-to-8=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-36, 3-4=-20
Horz: 1-4=-5, 1-5=-25, 2-3=-18, 2-6=-37
Trapezoidal Loads (plf)
Vert: 1=-47-to-7=-41, 7=-41-to-8=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-36, 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3, 2-6=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-7=-41, 7=-41-to-8=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-36, 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14, 2-6=25
Trapezoidal Loads (plf)
Vert: 1=-47-to-7=-41, 7=-41-to-8=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-7=-65, 7=-65-to-2=-75

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

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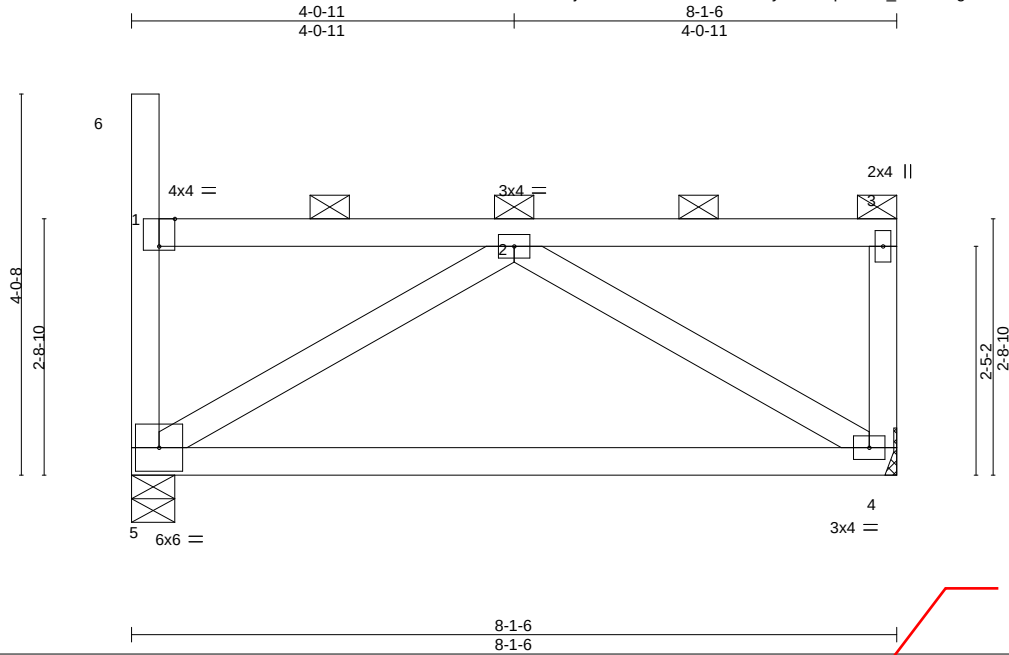
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479073
J220198-G03R	T12	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:39 2022 Page 1
ID:6EJRszEEA1occ44RuFMRXLy93I1-bqUGf5_kCRo?1gs16A5vxShdIKq4iu5GNvSO4zgdf0

Scale = 1:24.4

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

LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.29	Vert(LL)	-0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.77	Vert(CT)	-0.45	4-5	>209	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Horz(CT)	-0.00	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						Weight: 35 lb	FT = 20%
BCDL 10.0	Code IBC2018/TPI2014								

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-0-8 oc bracing.

REACTIONS.

(size) 5=0-5-8, 4=Mechanical
 Max Horz 5=-147(LC 10)
 Max Uplift 5=-58(LC 10), 4=-58(LC 11)
 Max Grav 5=337(LC 29), 4=318(LC 29)

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

BOT CHORD 4-5=-465/240
 WEBS 2-5=-258/519, 2-4=-282/512

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 5 and 58 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 2-3=-58, 4-5=-20
 Trapezoidal Loads (plf)
 Vert: 1=-73-to-2=-57



March 1, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T12	Flat	2	1	I50479073

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.

Mon Feb 28 10:55:39 2022 Page 2
 ID:6EJRszEEA1occ44RuFMRXLY93I1-bqUGFf5_kCRo?1gs16A5vxShdIKq4iu5GNvSO4zgdf0

LOAD CASE(S) Standard

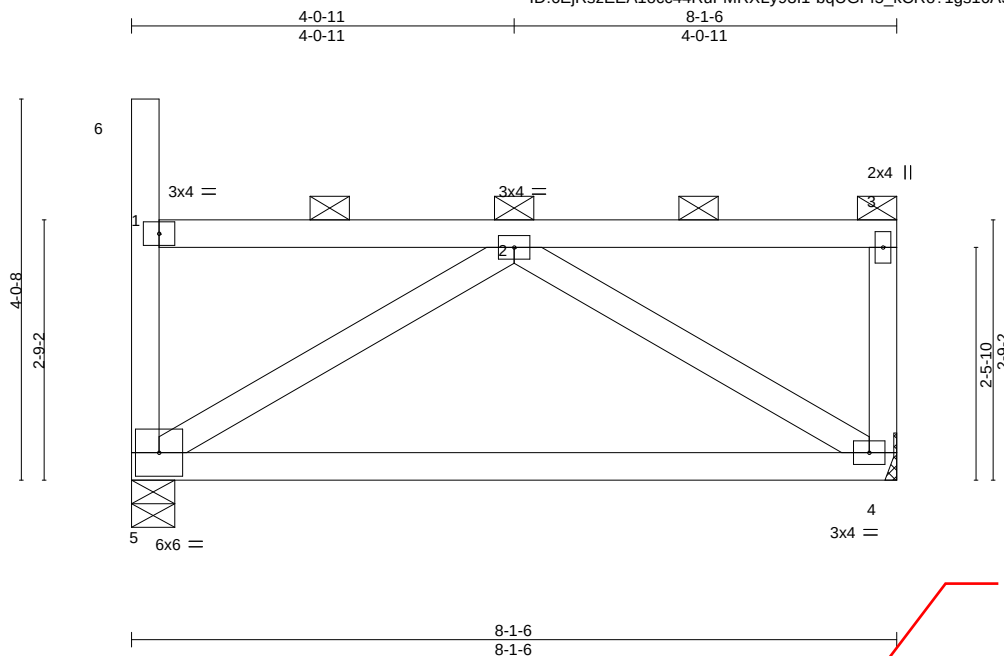
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 2-3=-48, 4-5=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-2=-48
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-3=-36, 4-5=-20
 - Horz: 1-5=18, 1-6=37, 3-4=5
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-2=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-3=-36, 4-5=-20
 - Horz: 1-5=-5, 1-6=-37, 3-4=-18
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-2=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-3=-36, 4-5=-20
 - Horz: 1-5=14, 1-6=-25, 3-4=3
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-2=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-3=-36, 4-5=-20
 - Horz: 1-5=-3, 1-6=-25, 3-4=-14
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-2=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 2-3=-60, 4-5=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-2=-60

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T13	Flat	2	1	IS0479074

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:39 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly93l1-bqUGFf5_kCRo?1gs16A5vxShelKq4iw5GNvSO4zgdf0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.29	Vert(LL) -0.22	4-5	>418	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.77	Vert(CT) -0.45	4-5	>209	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Horz(CT) -0.00	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-1-3 oc bracing.

REACTIONS.

(size) 5=0-5-8, 4=Mechanical
 Max Horz 5=-146(LC 10)
 Max Uplift 5=-58(LC 10), 4=-58(LC 11)
 Max Grav 5=337(LC 29), 4=318(LC 29)

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

BOT CHORD 4-5=-458/236
 WEBS 2-5=-255/513, 2-4=-279/506

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 5 and 58 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 2-3=-58, 4-5=-20
 Trapezoidal Loads (plf)
 Vert: 1=-73-to-2=-57



March 1, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T13	Flat	2	1	I50479074
Job Reference (optional)					

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.

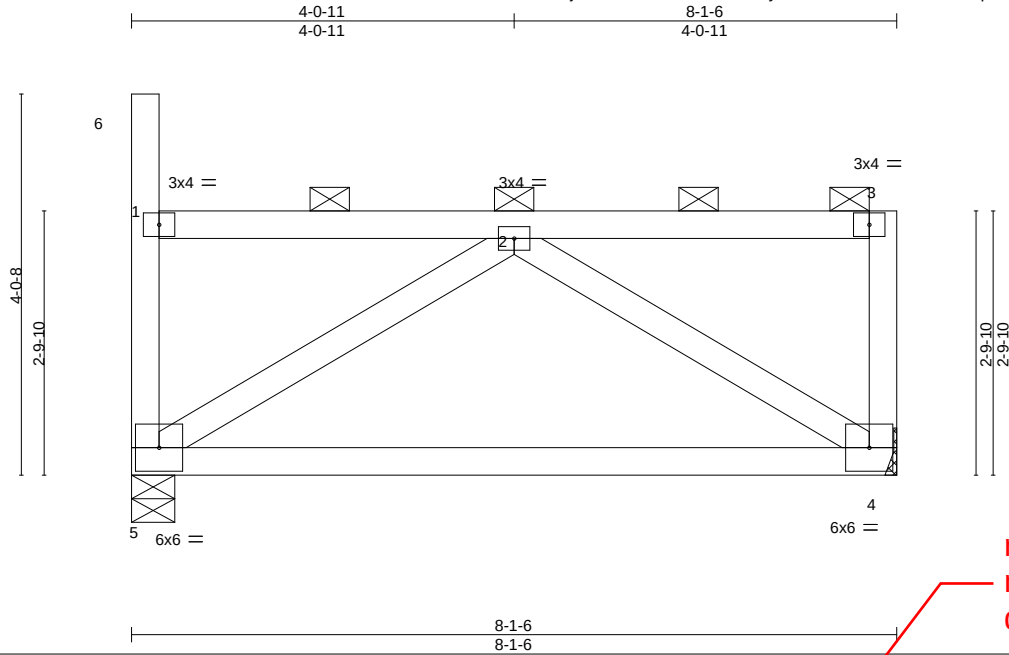
Mon Feb 28 10:55:39 2022 Page 2
 ID:6EjRszEEA1occ44RuFMRXly93l1-bqUGFf5_kCRo?1gs16A5vxShelKq4iw5GNvSO4zgdf0

LOAD CASE(S) Standard

- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 2-3=-48, 4-5=-20
 Trapezoidal Loads (plf)
 Vert: 1=-60-to-2=-48
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 Uniform Loads (plf)
 Vert: 2-3=-36, 4-5=-20
 Horz: 1-5=18, 1-6=37, 3-4=5
 Trapezoidal Loads (plf)
 Vert: 1=-47-to-2=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 Uniform Loads (plf)
 Vert: 2-3=-36, 4-5=-20
 Horz: 1-5=-5, 1-6=-37, 3-4=-18
 Trapezoidal Loads (plf)
 Vert: 1=-47-to-2=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 Uniform Loads (plf)
 Vert: 2-3=-36, 4-5=-20
 Horz: 1-5=14, 1-6=-25, 3-4=3
 Trapezoidal Loads (plf)
 Vert: 1=-47-to-2=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 Uniform Loads (plf)
 Vert: 2-3=-36, 4-5=-20
 Horz: 1-5=-3, 1-6=-25, 3-4=-14
 Trapezoidal Loads (plf)
 Vert: 1=-47-to-2=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 2-3=-60, 4-5=-20
 Trapezoidal Loads (plf)
 Vert: 1=-75-to-2=-60

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T14	Flat	2	1	150479075

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:40 2022 Page 1
ID:6EjRsZEEA1occ44RuFMRXly93l1-302eT?6cvVZfcBF2bqhKS8?sP8f3p9AEV0e?xWzgdfn

Scale = 1:24.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.22 4-5 >418 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Vert(CT) -0.45 4-5 >206 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, 1-3, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing.

REACTIONS.

(size) 5=0-5-8, 4=Mechanical
 Max Horz 5=-145(LC 10)
 Max Uplift 5=-58(LC 10), 4=-58(LC 11)
 Max Grav 5=337(LC 29), 4=318(LC 29)

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

BOT CHORD 4-5=-452/232
 WEBS 2-5=-252/508, 2-4=-275/500

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 5 and 58 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 2-3=-58, 4-5=-20
 Trapezoidal Loads (plf)
 Vert: 1=-73-to-2=-57



March 1, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T14	Flat	2	1	ISO479075

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.

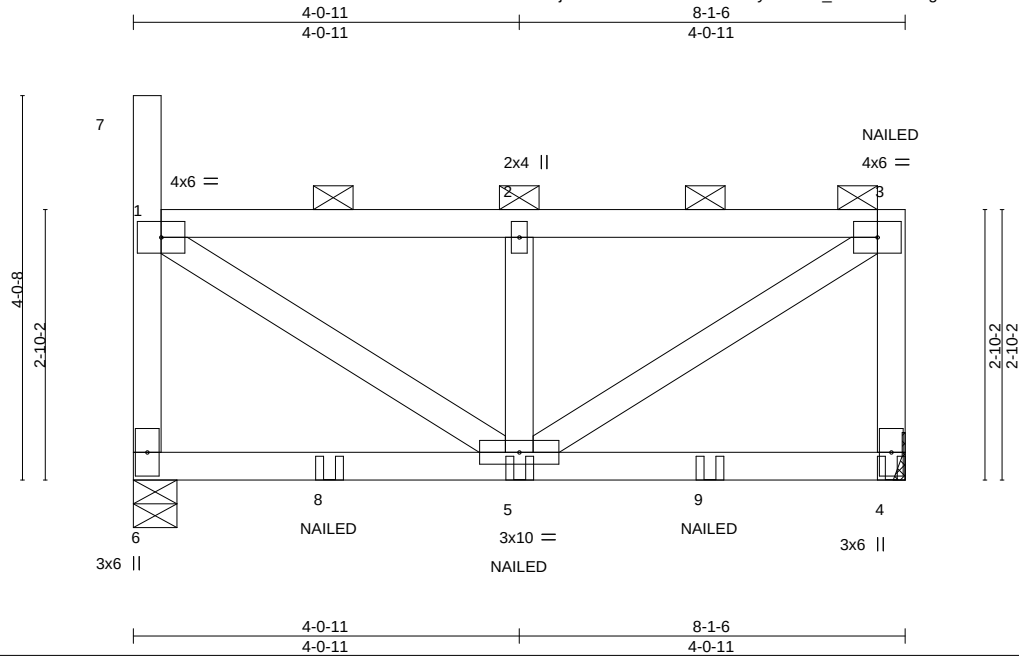
Mon Feb 28 10:55:40 2022 Page 2
 ID:6EjRszEEA1occ44RuFMRXly93l1-302eT?6cVVZfcBF2bqhKS8?sP8f3p9AEV0e?xWzgdfr

LOAD CASE(S) Standard

- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 2-3=-48, 4-5=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-2=-48
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-3=-36, 4-5=-20
 - Horz: 1-5=18, 1-6=37, 3-4=5
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-2=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-3=-36, 4-5=-20
 - Horz: 1-5=-5, 1-6=-37, 3-4=-18
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-2=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-3=-36, 4-5=-20
 - Horz: 1-5=14, 1-6=-25, 3-4=3
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-2=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-3=-36, 4-5=-20
 - Horz: 1-5=-3, 1-6=-25, 3-4=-14
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-2=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 2-3=-60, 4-5=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-2=-60

Job J220198-03F	Truss T15	Truss Type FLAT GIRDER	Qty 2	Ply 1	Brinkmann Constructors IS0479076
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Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:05:19 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-30_iAVL?ULP6TgoAHu9PMtTtSkUWEusXWWTIXazfPIU

Scale: 1/2"=1'

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0		2-0-0	TC	0.32	in	(loc)	I/defl	L/d	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Plate Grip DOL	1.15	BC	0.24	Vert(LL)	0.03	5-6	>999		
TCDL	10.0	Lumber DOL	1.15	WB	0.17	Vert(CT)	0.03	5-6	>999		
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-MP		Horz(CT)	0.00	4	n/a		
BCDL	10.0	Code IBC2018/TPI2014								Weight: 37 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, 1-3, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=412/0-5-8, 4=458/Mechanical
 Max Horz 6=-144(LC 10)
 Max Uplift 6=-325(LC 10), 4=-352(LC 11)
 Max Grav 6=421(LC 29), 4=469(LC 29)

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

TOP CHORD 1-6=-371/404, 1-2=-398/377, 2-3=-398/377, 3-4=-418/433
 BOT CHORD 6-8=-244/306, 5-8=-244/306
 WEBS 1-5=-451/450, 2-5=-281/401, 3-5=-469/475

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) from truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 325 lb uplift at joint 6 and 352 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 2-3=-58, 4-6=-20



March 1, 2022

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479076
J220198-03F	T15	FLAT GIRDER	2	1	Job Reference (optional)	

Mill Creek Truss, Halstead, KS 67056, Mitek

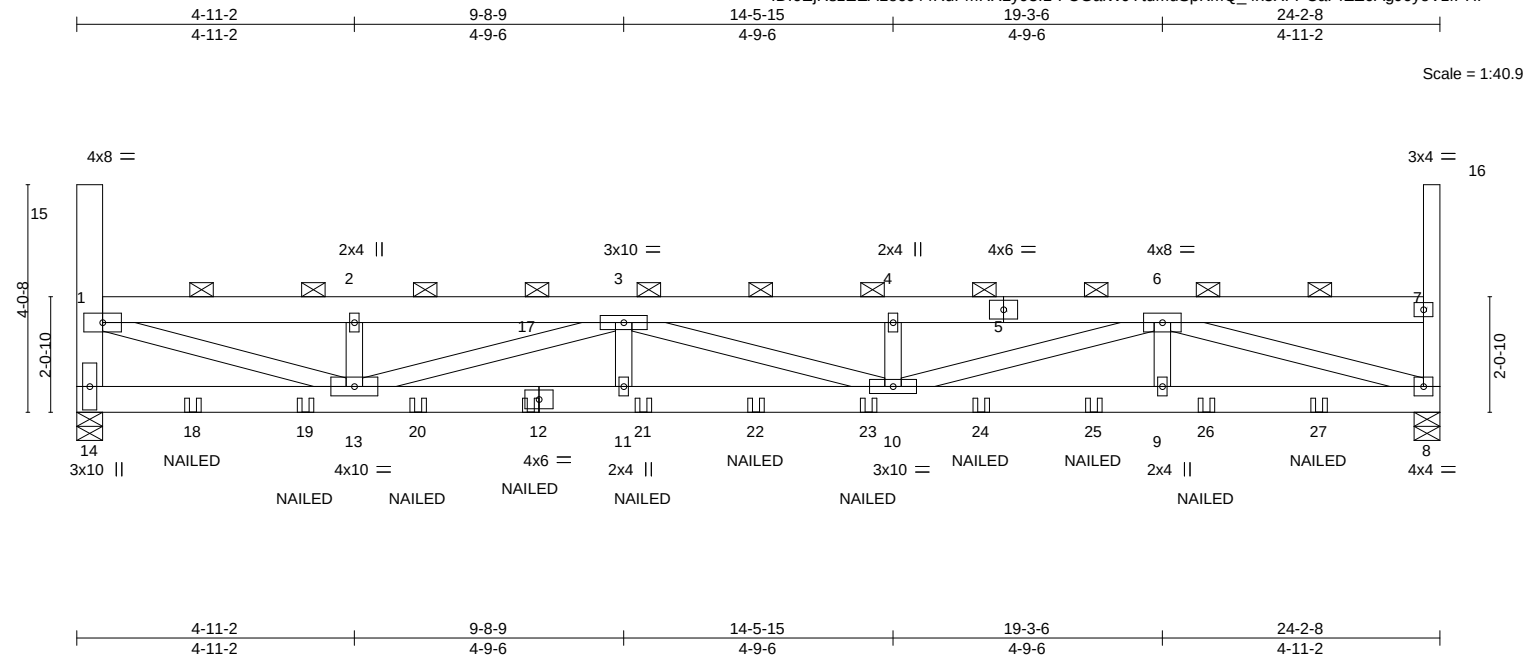
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:05:19 2022 Page 2
 ID:6EjRszEEA1occ44RuFMRXLy93I1-30_iAVL?ULP6TgoAHu9PMtTtSkUWEusXWWTIXazfPIU

- LOAD CASE(S)** Standard
- Concentrated Loads (lb)
 Vert: 5=-56(F) 3=-65(F) 8=-56(F) 9=-56(F)
- Trapezoidal Loads (plf)
 Vert: 1=-73-to-2=-57
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 2-3=-48, 4-6=-20
- Concentrated Loads (lb)
 Vert: 5=-47(F) 3=-57(F) 8=-47(F) 9=-47(F)
- Trapezoidal Loads (plf)
 Vert: 1=-60-to-2=-48
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
 Vert: 2-3=-36, 4-6=-20
 Horz: 1-6=18, 1-7=37, 3-4=5
- Concentrated Loads (lb)
 Vert: 5=124(F) 3=-92(F) 8=124(F) 9=124(F)
- Trapezoidal Loads (plf)
 Vert: 1=-47-to-2=-36
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
 Vert: 2-3=-36, 4-6=-20
 Horz: 1-6=-5, 1-7=-37, 3-4=-18
- Concentrated Loads (lb)
 Vert: 5=124(F) 3=-61(F) 8=124(F) 9=124(F)
- Trapezoidal Loads (plf)
 Vert: 1=-47-to-2=-36
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
 Vert: 2-3=-36, 4-6=-20
 Horz: 1-6=14, 1-7=-25, 3-4=3
- Concentrated Loads (lb)
 Vert: 5=124(F) 3=-69(F) 8=124(F) 9=124(F)
- Trapezoidal Loads (plf)
 Vert: 1=-47-to-2=-36
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
 Vert: 2-3=-36, 4-6=-20
 Horz: 1-6=-3, 1-7=-25, 3-4=-14
- Concentrated Loads (lb)
 Vert: 5=124(F) 3=-61(F) 8=124(F) 9=124(F)
- Trapezoidal Loads (plf)
 Vert: 1=-47-to-2=-36
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 2-3=-60, 4-6=-20
- Concentrated Loads (lb)
 Vert: 5=-56(F) 3=-67(F) 8=-56(F) 9=-56(F)
- Trapezoidal Loads (plf)
 Vert: 1=-75-to-2=-60

Job J220198-03F	Truss T16	Truss Type FLAT GIRDER	Qty 2	Ply 2	Brinkmann Constructors IS0479077
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Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:06:38 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-FCGaWJYtdMuSpKMQ_4x3XFPaPFEZ0AgJ6yoVzfPHF



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.33	Vert(LL) 0.27 10-11 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.39	Vert(CT) -0.26 10-11 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) -0.04 8 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 255 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
14-15: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-15 oc bracing.

REACTIONS.

(lb/size) 14=1348/0-5-8, 8=1344/0-5-8
Max Horz 14=-232(LC 12)
Max Uplift 14=-1003(LC 10), 8=-874(LC 11)
Max Grav 14=1375(LC 29), 8=1373(LC 29)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1235/879, 1-2=-3239/2580, 2-17=-3239/2580, 3-4=-4878/3805,
4-5=-4878/3805, 5-6=-4878/3805, 6-7=-223/266
BOT CHORD 14-18=-517/406, 18-19=-517/406, 13-19=-517/406, 13-20=-3841/4868, 12-20=-3841/4868,
11-12=-3841/4868, 11-21=-3841/4868, 21-22=-3841/4868, 22-23=-3841/4868,
10-23=-3841/4868, 10-24=-2414/3297, 24-25=-2414/3297, 9-25=-2414/3297,
9-26=-2414/3297, 26-27=-2414/3297, 8-27=-2414/3297
WEBS 1-13=-2466/3178, 2-13=-271/260, 3-13=-1718/1397, 3-11=-348/252, 4-10=-280/263,
6-10=-1477/1667, 6-9=-269/257, 6-8=-3302/2434

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads indicated as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1003 lb uplift at joint 14 and 874 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2



March 1, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0479077
J220198-03F	T16	FLAT GIRDER	2	2	Job Reference (optional)	

Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:06:38 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-FCGaWJYtdMuSpKMQ_4x3XFPaPFEZ0AgJ6yoVzfPHF**NOTES-**

- 11) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-17=-58, 8-14=-20
Concentrated Loads (lb)
Vert: 12=-66(B) 18=-66(B) 19=-66(B) 20=-66(B) 21=-66(B) 22=-66(B) 23=-66(B) 24=-66(B) 25=-66(B) 26=-66(B) 27=-66(B)
Trapezoidal Loads (plf)
Vert: 1=-73-to-17=-58, 5=-58-to-7=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-17=-48, 8-14=-20
Concentrated Loads (lb)
Vert: 12=-55(B) 18=-55(B) 19=-55(B) 20=-55(B) 21=-55(B) 22=-55(B) 23=-55(B) 24=-55(B) 25=-55(B) 26=-55(B) 27=-58(B)
Trapezoidal Loads (plf)
Vert: 1=-60-to-17=-48, 5=-49-to-7=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-17=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Concentrated Loads (lb)
Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=93(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-17=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Concentrated Loads (lb)
Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=61(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-17=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Concentrated Loads (lb)
Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=82(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-17=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Concentrated Loads (lb)
Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B)
27=82(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-17=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 12=-66(B) 18=-66(B) 19=-66(B) 20=-66(B) 21=-66(B) 22=-66(B) 23=-66(B) 24=-66(B) 25=-66(B) 26=-66(B) 27=-68(B)
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 5=-60-to-7=-75

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479078
J220198-G03R	T17	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

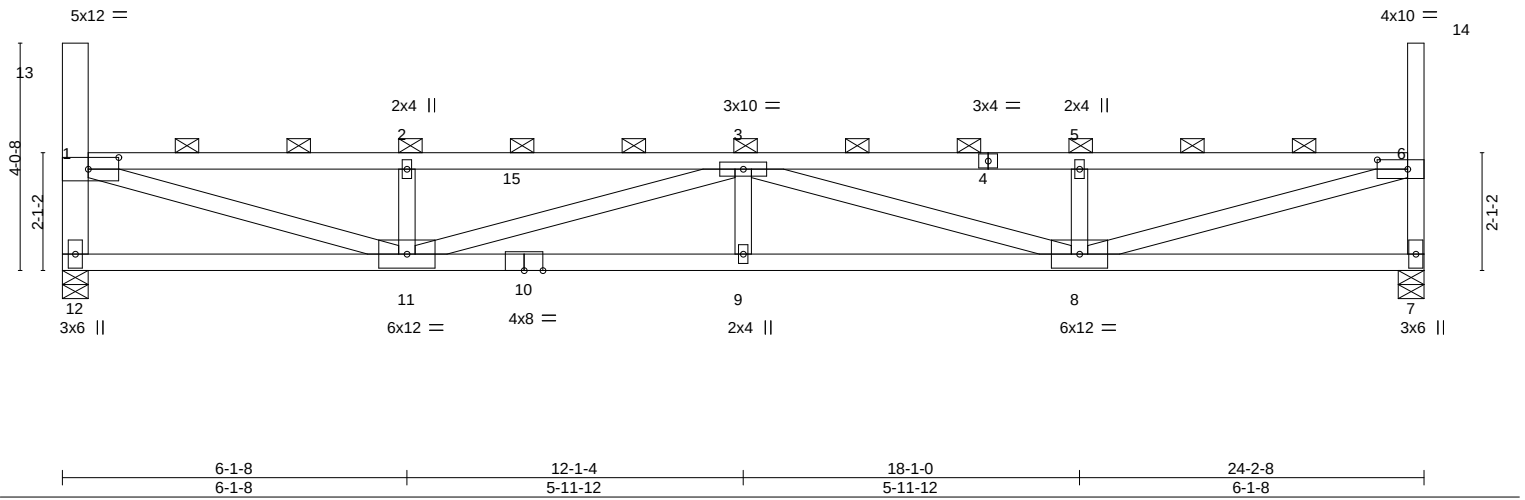
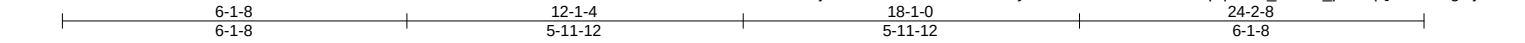
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:44 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXly9311-xnH9JN96Zk355oZpqfmGc_9RKm_plm?qQecD4Hzgdfj

Plate Offsets (X,Y)-- [1:0-6-8,0-2-8], [6:0-6-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.98	Vert(LL) 0.28 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.50 8-9 >572 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.07 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 97 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (2-11-10 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-3-3 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-228(LC 10)
 Max Uplift 12=-75(LC 10), 7=-75(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-947/561, 1-2=-2542/1362, 2-3=-2542/1362, 3-5=-2569/1372, 5-6=-2569/1372, 6-7=-947/563
 BOT CHORD 11-12=-473/421, 9-11=-1859/3324, 8-9=-1859/3324
 WEBS 1-11=-1408/2545, 2-11=-396/336, 3-11=-827/569, 3-8=-800/550, 5-8=-402/342, 6-8=-1421/2577

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1, 2022

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T17	Flat	2	1	I50479078

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:44 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy9311-xnH9JN96Zk355oZpqfmGc_9RKm_plm?qQecD4Hzgdfj

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 4-15=-58, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479079
J220198-G03R	T18	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC,
 Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:45 2022 Page 1
 ID:6EjRsZEEA1occ44RuFMRXLy93I1-QzrXWiAIK2Byjy7?NNHV9CicM9LOUDVzfiMmcjzgdff

6-1-8
6-1-8

12-1-4
5-11-12

18-1-0
5-11-12

24-2-8
6-1-8

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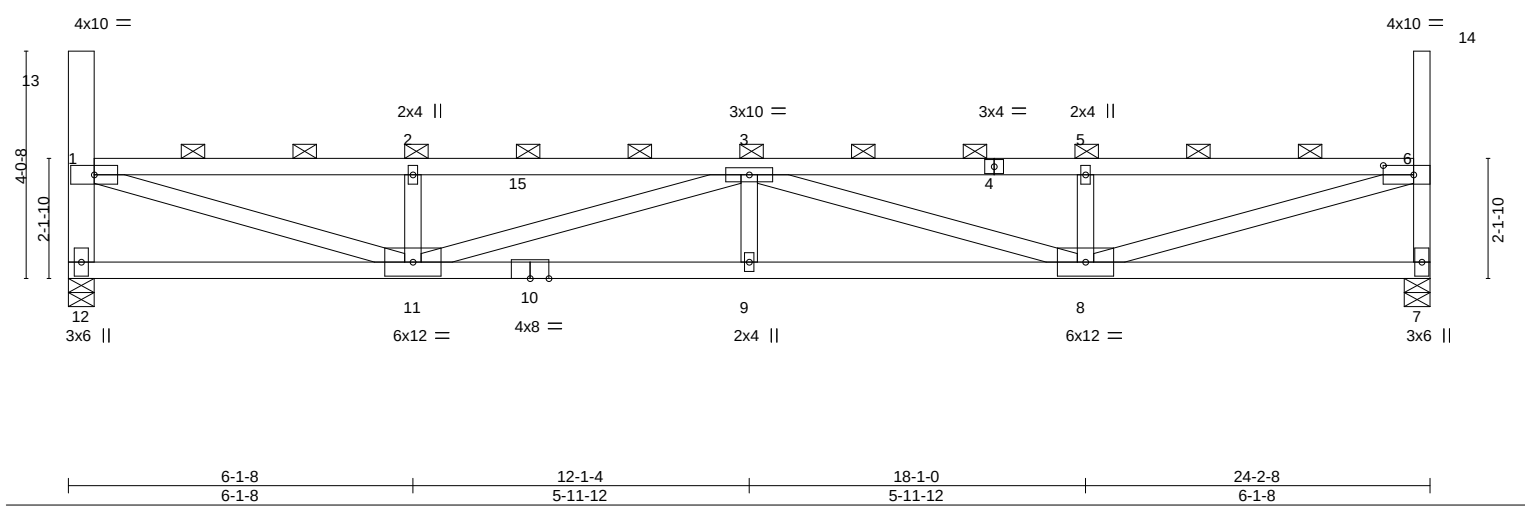


Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.96	Vert(LL)	0.27 9 >999		197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Vert(CT)	-0.48 8-9 >597		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Horz(CT)	0.07 7 n/a		
BCDL	10.0							Weight: 97 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-0-5 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-3-13 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	12-13: 2x6 SPF 1650F 1.5E		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
 Max Horz 12=226(LC 11)
 Max Uplift 12=-75(LC 10), 7=-75(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-948/561, 1-2=-2487/1332, 2-3=-2487/1332, 3-5=-2513/1342, 5-6=-2513/1342, 6-7=-948/563
 BOT CHORD 11-12=-463/413, 9-11=-1820/3250, 8-9=-1820/3250
 WEBS 1-11=-1380/2496, 2-11=-396/336, 3-11=-809/556, 3-8=-783/538, 5-8=-402/343, 6-8=-1392/2527

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1,2022

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T18	Flat	2	1	ISO479079

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:45 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-QzrXWIAIK2Byjy7?NNHV9CicM9LOUDVzfiMmcjzgdff

LOAD CASE(S) Standard

- Uniform Loads (plf)
 - Vert: 4-15=-58, 7-12=-20
- Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479080
J220198-G03R	T19	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

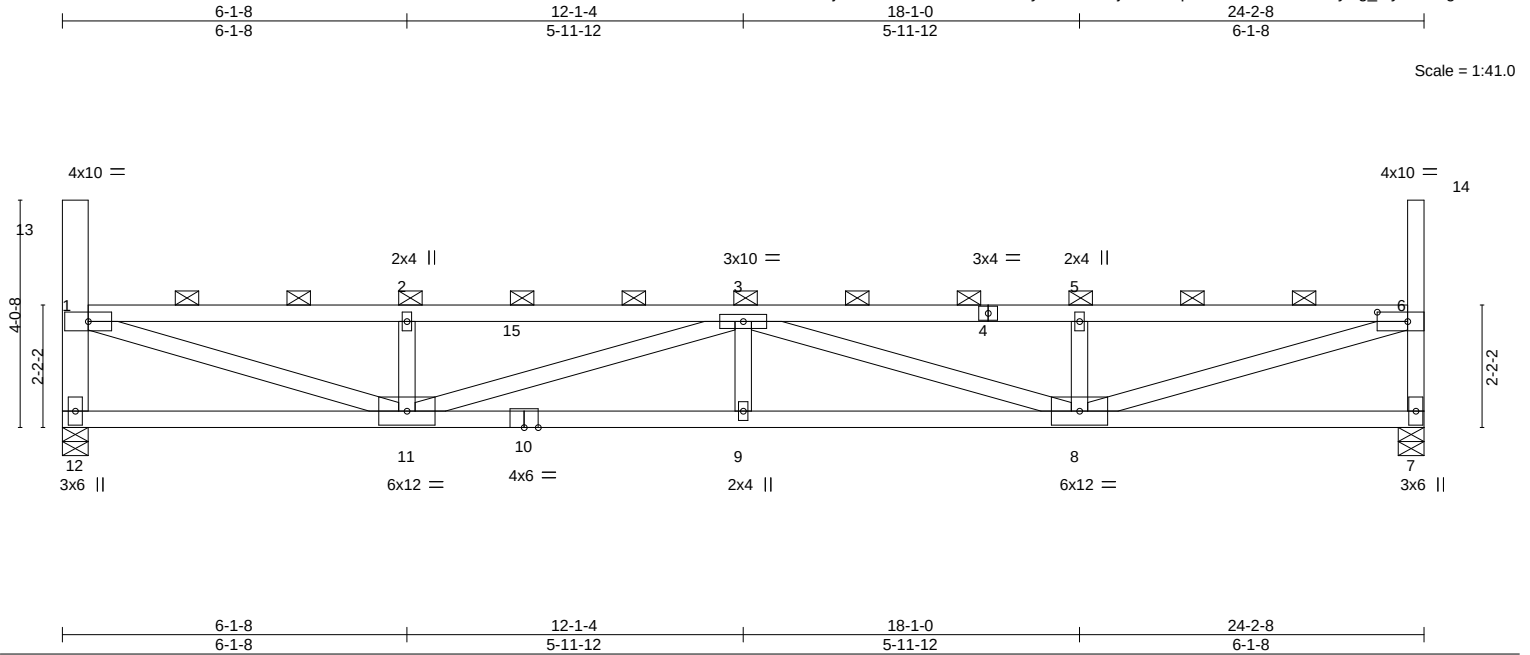
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:46 2022 Page 1
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Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.71	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.94	Vert(LL) 0.26 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.92	Vert(CT) -0.46 8-9 >622 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 98 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-1-0 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-4-6 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-224(LC 10)
 Max Uplift 12=-75(LC 10), 7=-75(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-948/561, 1-2=-2433/1304, 2-3=-2433/1304, 3-5=-2459/1314, 5-6=-2459/1314,
 6-7=-948/562
 BOT CHORD 11-12=-453/405, 9-11=-1784/3180, 8-9=-1784/3180
 WEBS 1-11=-1353/2448, 2-11=-397/336, 3-11=-792/544, 3-8=-767/526, 5-8=-403/343,
 6-8=-1365/2479

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T19	Flat	2	1	I50479080

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.
 Mon Feb 28 10:55:46 2022
 Page 2
 ID:6EjRszEEA1occ44RuFMRXLy9311-uAPvj2BN5LJpK6iCx4okhPFmNZhyDg_7ty5J8Azgdfh

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
 - Vert: 4-15=-58, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479081
J220198-G03R	T20	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

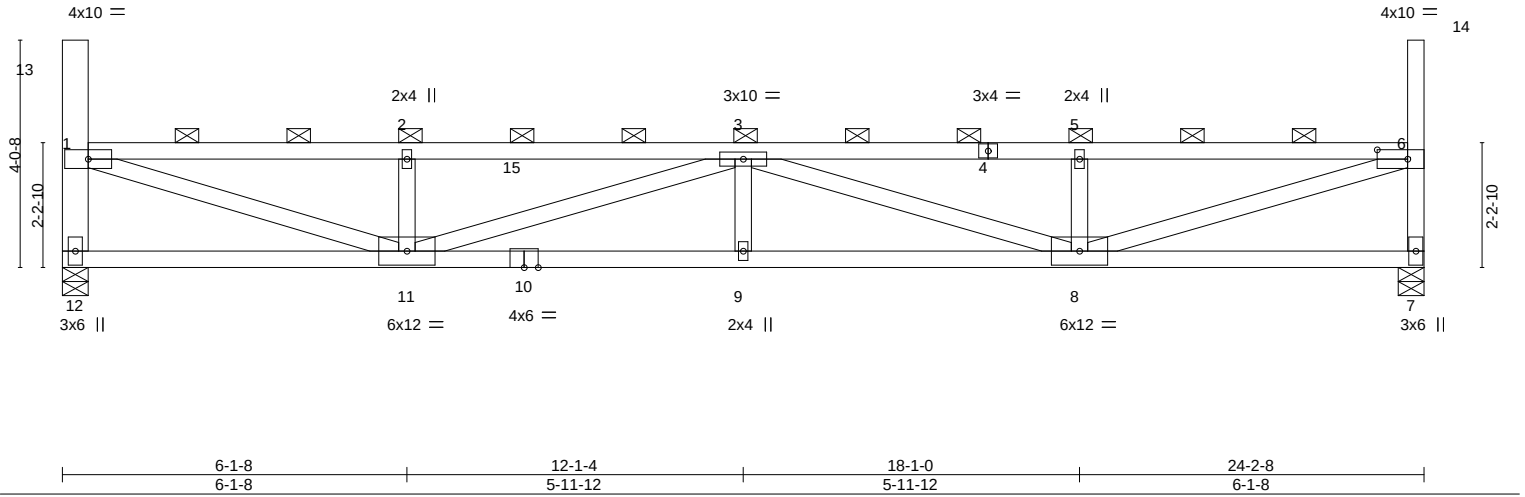
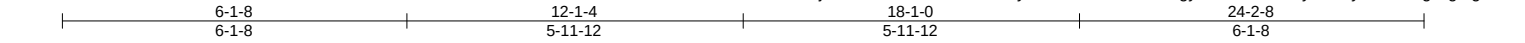
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:47 2022 Page 1
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Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) 0.25 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.44 8-9 >648 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 98 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-1-10 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-4-14 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=222(LC 11)
 Max Uplift 12=-75(LC 10), 7=-75(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-948/561, 1-2=-2382/1276, 2-3=-2382/1276, 3-5=-2407/1286, 5-6=-2407/1286,
 6-7=-949/562
 BOT CHORD 11-12=-444/397, 9-11=-1749/3112, 8-9=-1749/3112
 WEBS 1-11=-1327/2403, 2-11=-397/337, 3-11=-777/532, 3-8=-751/514, 5-8=-403/343,
 6-8=-1338/2433

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1,2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T20	Flat	2	1	ISO479081

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.
 Mon Feb 28 10:55:47 2022
 Page 2
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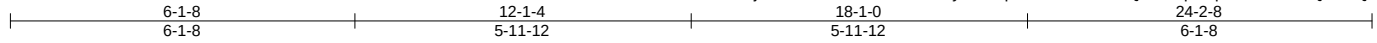
- LOAD CASE(S)** Standard
- Uniform Loads (plf)
 - Vert: 4-15=-58, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479082
J220198-G03R	T21	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:48 2022 Page 1

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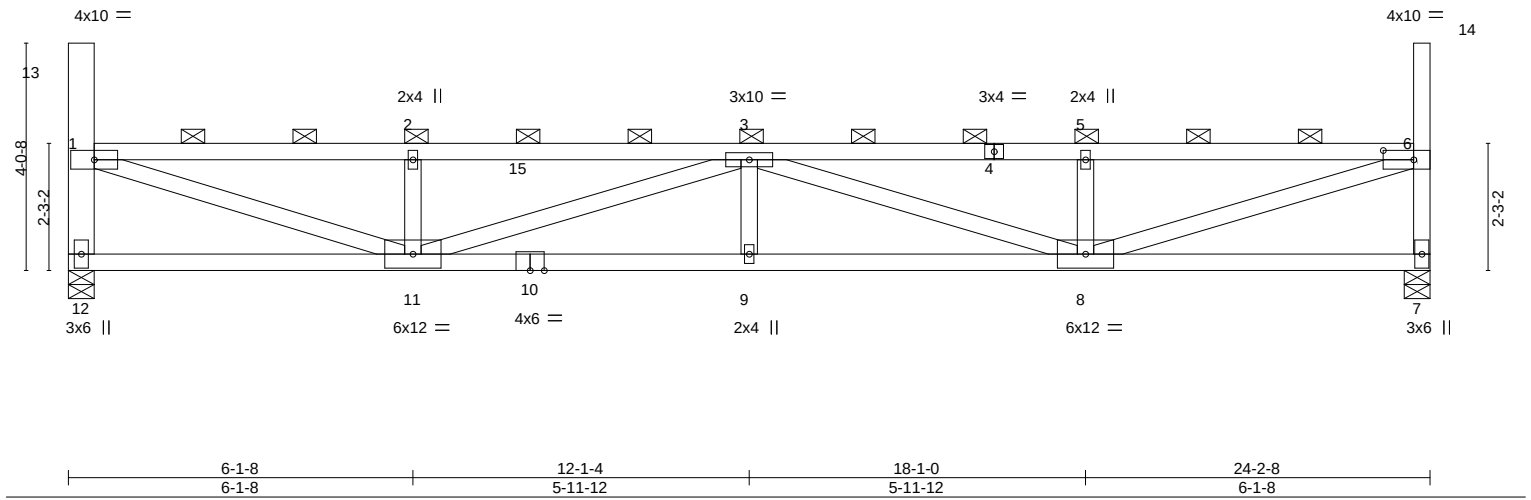


Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) 0.24 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.89	Vert(CT) -0.42 8-9 >675 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 98 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-2-4 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-5-7 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-220(LC 12)
 Max Uplift 12=-75(LC 10), 7=-75(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-949/561, 1-2=-2333/1250, 2-3=-2333/1250, 3-5=-2358/1260, 5-6=-2358/1260, 6-7=-949/562
 BOT CHORD 11-12=-435/389, 9-11=-1715/3047, 8-9=-1715/3047
 WEBS 1-11=-1302/2360, 2-11=-398/337, 3-11=-761/521, 3-8=-737/504, 5-8=-404/343, 6-8=-1313/2389

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T21	Flat	2	1	ISO479082

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.

Mon Feb 28 10:55:48 2022 Page 2
 ID:6EjRszEEA1occ44RuFMRXLy9311-qYXf8kCddzZWaQsa3VqCnqK7LNM1hbnvQLGaQD2zgdf

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
 - Vert: 4-15=-58, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479083
J220198-G03R	T22	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:50 2022 Page 1
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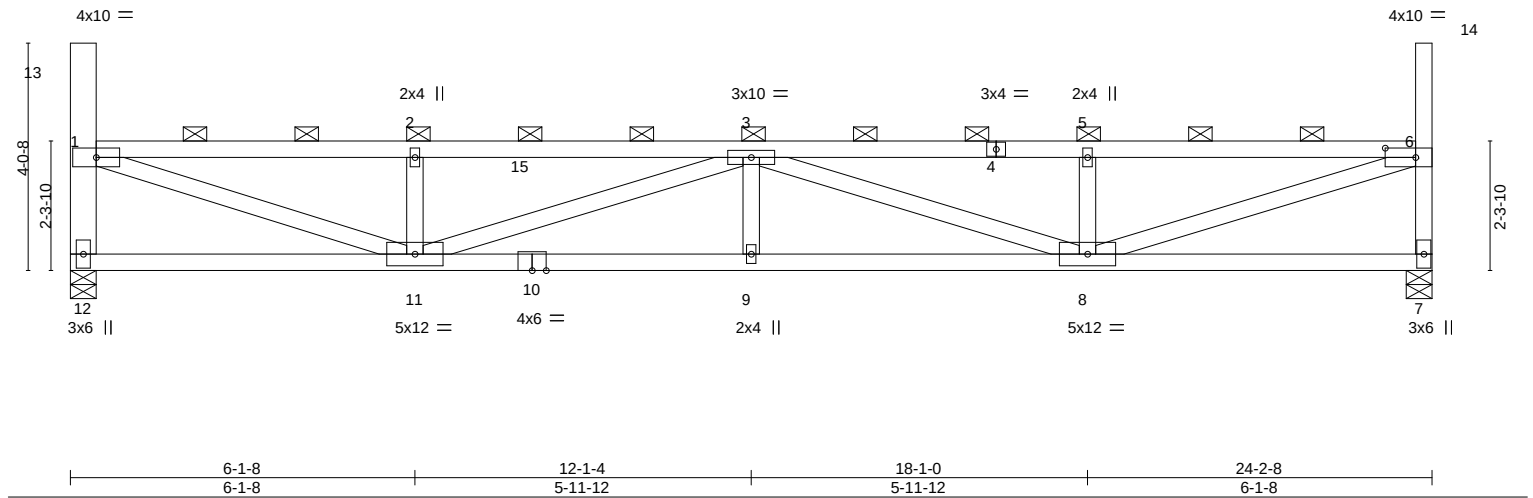


Plate Offsets (X,Y)-- [6:0-6-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) 0.23 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.88	Vert(CT) -0.41 8-9 >701 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 98 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-2-12 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-6-0 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-217(LC 10)
 Max Uplift 12=-74(LC 10), 7=-74(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-949/560, 1-2=-2286/1225, 2-3=-2286/1225, 3-5=-2310/1234, 5-6=-2310/1234,
 6-7=-949/562
 BOT CHORD 11-12=-426/382, 9-11=-1682/2985, 8-9=-1682/2985
 WEBS 1-11=-1278/2318, 2-11=-398/337, 3-11=-747/510, 3-8=-723/493, 5-8=-404/343,
 6-8=-1289/2347

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T22	Flat	2	1	I50479083

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:50 2022 Page 2
ID:6EJRszEEA1occ44RuFMRXLy93l1-mxeQZQE8apEj0zAwsgsFPT2A3n9Vcioa3XHxzgdf

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 4-15=-58, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

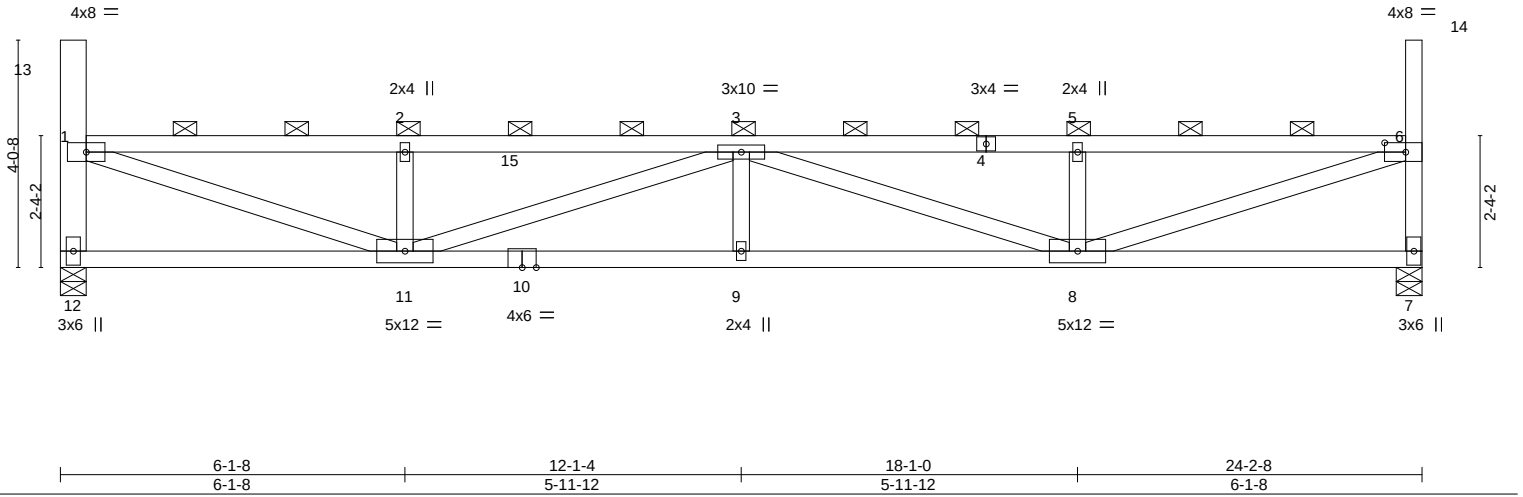
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479084
J220198-G03R	T23	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:51 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLY9311-E7ConmFVvux5Rtb9keOvOTye_aPHuy2s1Ep4gNzgdfc

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.22	in (loc)	9	L/defl	>999	L/d	240
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.39	8-9	>728	180			
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.06	7	n/a	n/a			
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS									
BCDL	10.0												
										Weight: 98 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-3-5 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-6-9 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=215(LC 11)
 Max Uplift 12=-74(LC 10), 7=-74(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-949/560, 1-2=-2241/1201, 2-3=-2241/1201, 3-5=-2265/1210, 5-6=-2265/1210,
 6-7=-950/561
 BOT CHORD 11-12=-418/375, 9-11=-1651/2925, 8-9=-1651/2925
 WEBS 1-11=-1255/2278, 2-11=-399/337, 3-11=-733/500, 3-8=-709/483, 5-8=-405/343,
 6-8=-1266/2307

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T23	Flat	2	1	I50479084

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:51 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy9311-E7ConmFVvux5Rtb9keOvOTye_aPHuy2s1Ep4qNzgdfc

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 4-15=-58, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

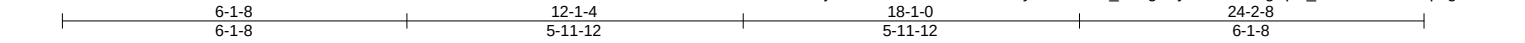
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479085
J220198-G03R	T24	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:52 2022 Page 1
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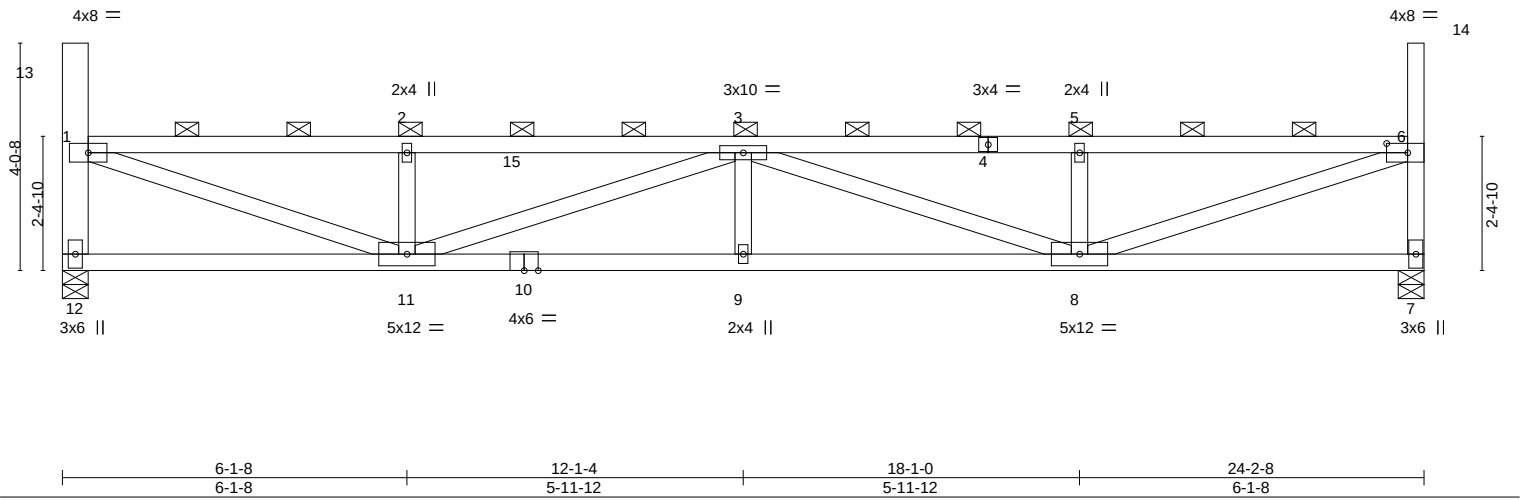


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.84	Vert(LL) 0.21 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.85	Vert(CT) -0.38 8-9 >756 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 99 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-3-14 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-7-1 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-213(LC 10)
 Max Uplift 12=-74(LC 10), 7=-74(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-950/560, 1-2=-2198/1177, 2-3=-2198/1177, 3-5=-2221/1186, 5-6=-2221/1186,
 6-7=-950/561
 BOT CHORD 11-12=-410/368, 9-11=-1621/2868, 8-9=-1621/2868
 WEBS 1-11=-1233/2240, 2-11=-399/337, 3-11=-720/490, 3-8=-696/474, 5-8=-405/343,
 6-8=-1244/2268

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1, 2022

Continued on page 2

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T24	Flat	2	1	ISO479085

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:52 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXly93l1-iKmA_6F8gB4y31ALILv8xgVpw_IndOU?GuYeMpzgdfb

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 4-15=-58, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

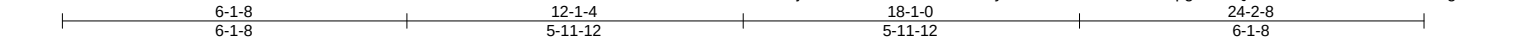
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479086
J220198-G03R	T25	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:53 2022 Page 1
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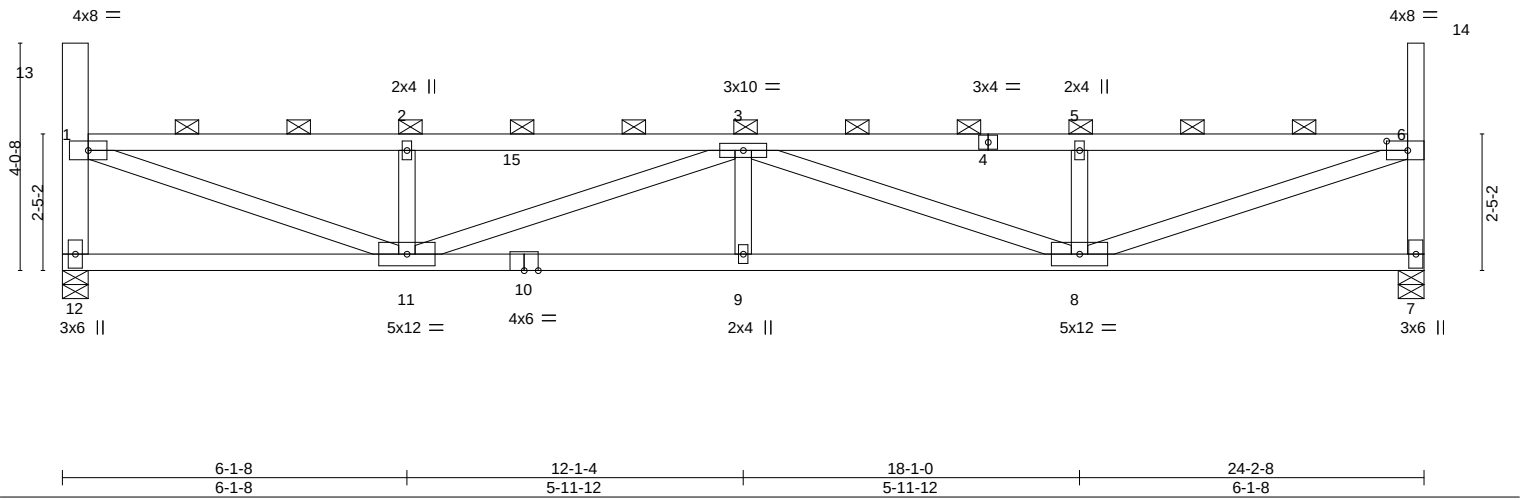


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) 0.21 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.84	Vert(CT) -0.36 8-9 >784 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 99 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-4-7 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-7-9 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-211(LC 10)
 Max Uplift 12=-74(LC 10), 7=-74(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-950/560, 1-2=-2156/1155, 2-3=-2156/1155, 3-5=-2179/1164, 5-6=-2179/1164,
 6-7=-950/561
 BOT CHORD 11-12=-402/361, 9-11=-1592/2813, 8-9=-1592/2813
 WEBS 1-11=-1212/2203, 2-11=-399/337, 3-11=-707/480, 3-8=-684/465, 5-8=-406/344,
 6-8=-1222/2230

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T25	Flat	2	1	ISO479086

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:53 2022 Page 2
ID:6EJRszEEA1occ44RuFMRXLy93l1-BWKYBSGmRVcpgBIYr2QNTu1?rO5GMru9UYIBuGzgdfa

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 4-15=-58, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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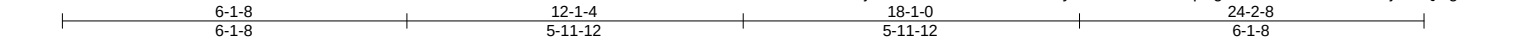
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479087
J220198-G03R	T26	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:54 2022 Page 1
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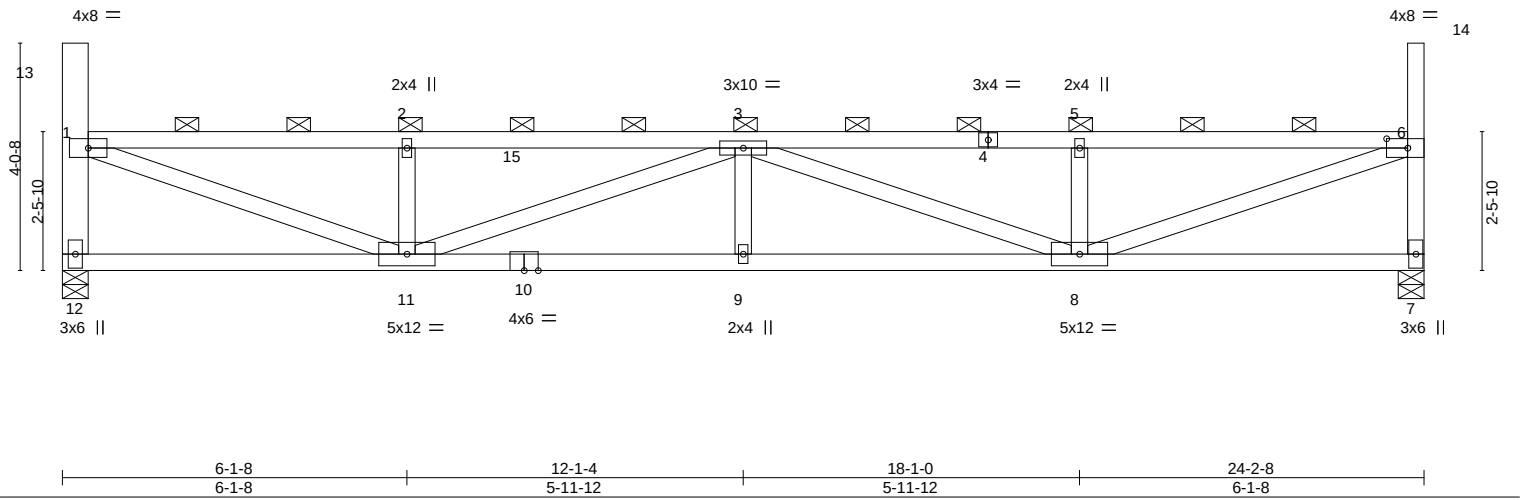


Plate Offsets (X,Y)-- [6:0-4,8:0-2-0]

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.20	in (loc)	9	L/defl	>999	L/d	240
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.35	8-9	>812	180			
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	7	n/a	n/a			
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS									
BCDL	10.0												
											Weight: 99 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-4-15 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-8-2 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-209(LC 10)
 Max Uplift 12=-74(LC 10), 7=-74(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-950/560, 1-2=-2115/1133, 2-3=-2115/1133, 3-5=-2138/1142, 5-6=-2138/1142,
 6-7=-951/561
 BOT CHORD 11-12=-394/354, 9-11=-1563/2760, 8-9=-1563/2760
 WEBS 11-11=-1191/2167, 2-11=-400/337, 3-11=-695/471, 3-8=-672/456, 5-8=-406/344,
 6-8=-1202/2194

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1, 2022

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T26	Flat	2	1	ISO479087

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:54 2022 Page 2

ID:6EjRszEEA1occ44RuFMRXLy9311-fiuxPnHOCpKgILJkPmxc05aAloRI5IJjC1kQizgdfZ

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
 - Vert: 4-15=-58, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479088
J220198-G03R	T27	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

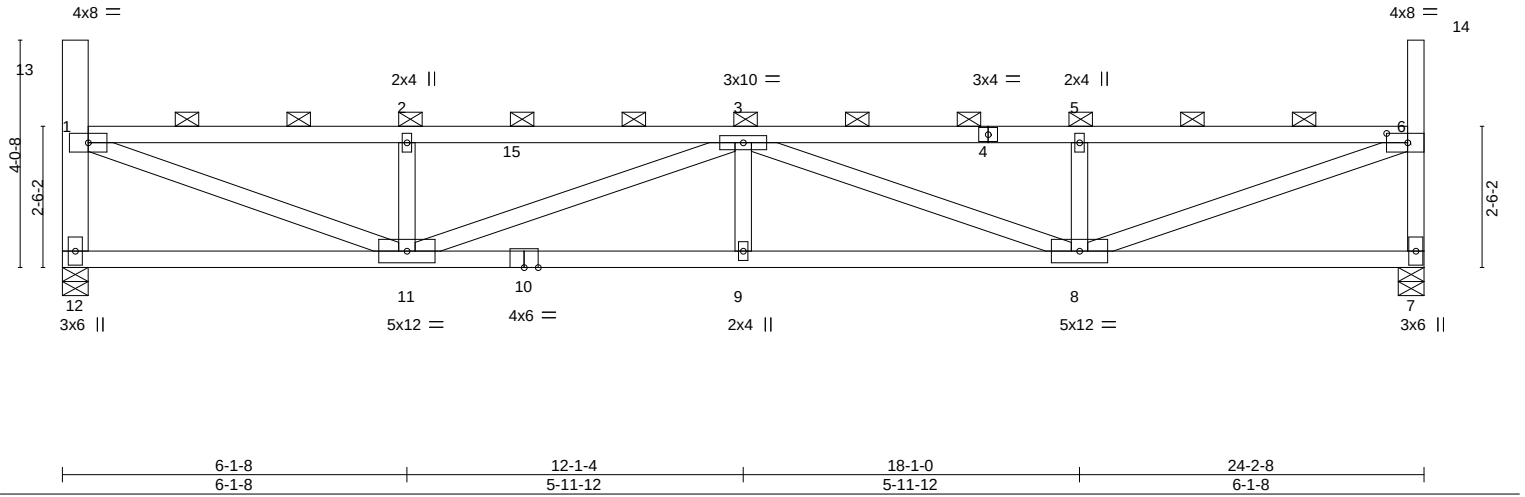
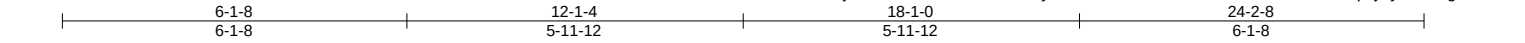
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:55 2022 Page 1
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Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) 0.19 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.34 8-9 >840 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.05 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 99 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-5-7 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-8-10 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-206(LC 10)
 Max Uplift 12=-73(LC 10), 7=-73(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-951/559, 1-2=-2077/1112, 2-3=-2077/1112, 3-5=-2099/1121, 5-6=-2099/1121,
 6-7=-951/560
 BOT CHORD 11-12=-386/347, 9-11=-1536/2708, 8-9=-1536/2708
 WEBS 1-11=-1172/2133, 2-11=-400/338, 3-11=-683/462, 3-8=-661/447, 5-8=-407/344,
 6-8=-1182/2160

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1,2022

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T27	Flat	2	1	I50479088

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:55 2022 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 4-15=-58, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479089
J220198-G03R	T28	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:56 2022 Page 1

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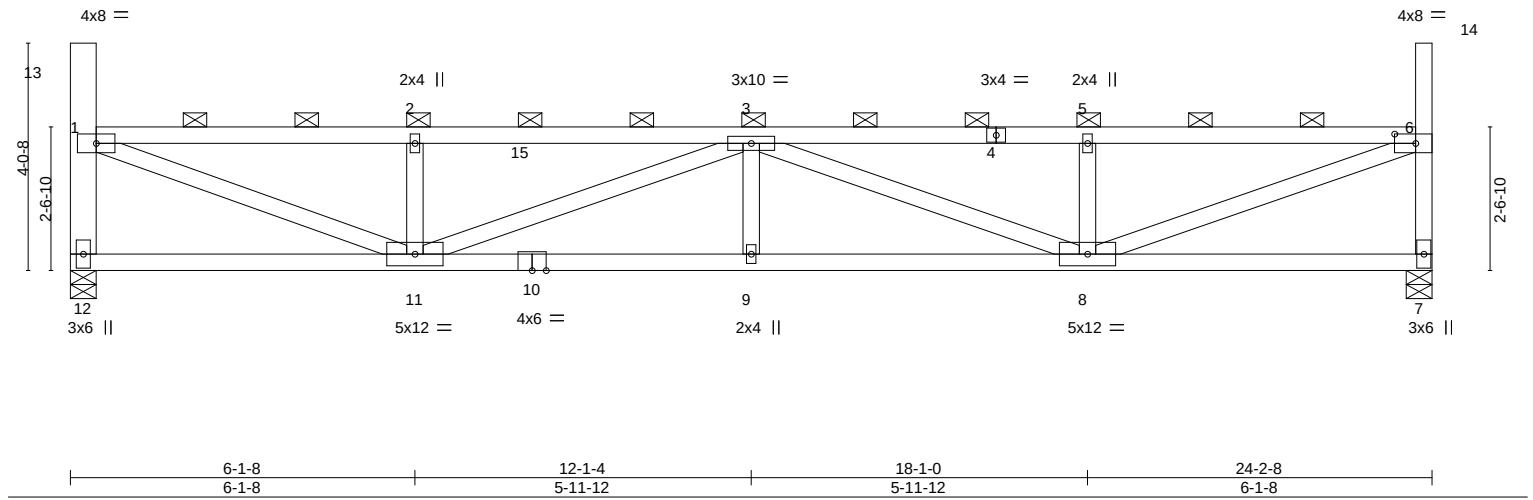


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.78	Vert(LL) 0.19 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.81	Vert(CT) -0.33 8-9 >869 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.05 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 99 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-5-15 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-9-2 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=204(LC 11)
 Max Uplift 12=-73(LC 10), 7=-73(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-951/559, 1-2=-2039/1092, 2-3=-2039/1092, 3-5=-2061/1101, 5-6=-2061/1101,
 6-7=-951/560
 BOT CHORD 11-12=-379/341, 9-11=-1510/2659, 8-9=-1510/2659
 WEBS 1-11=-1153/2100, 2-11=-400/338, 3-11=-672/454, 3-8=-650/439, 5-8=-407/344,
 6-8=-1163/2126

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T28	Flat	2	1	I50479089

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:56 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-b50hqTlekQaOXeT7XBz45WfWXb7fZD7bBWWrVbzgdfX

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 4-15=-58, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
- Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
- Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

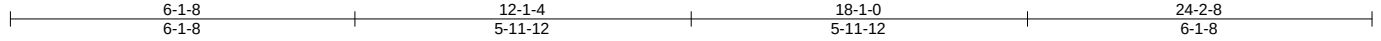
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479090
J220198-G03R	T29	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:57 2022 Page 1
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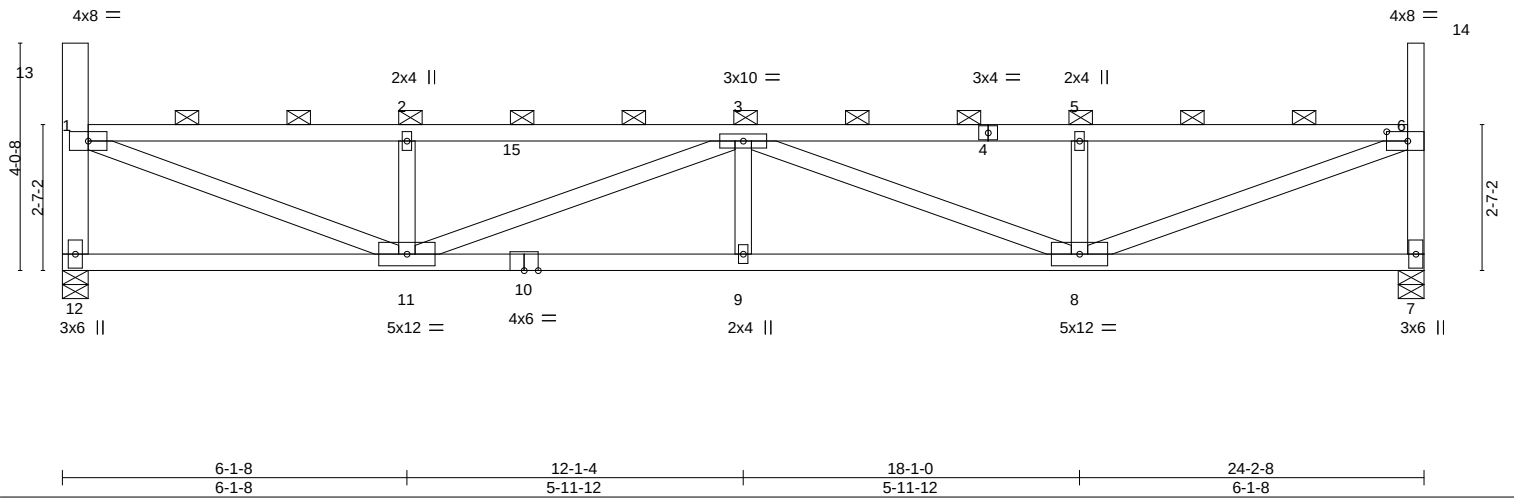


Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]

LOADING (psf)		SPACING-2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.18	9	>999	240	MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.32	8-9	>898	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 100 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-6-8 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-9-11 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-202(LC 10)
 Max Uplift 12=-73(LC 10), 7=-73(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-951/559, 1-2=-2003/1073, 2-3=-2003/1073, 3-5=-2024/1082, 5-6=-2024/1082,
 6-7=-951/560
 BOT CHORD 11-12=-372/334, 9-11=-1484/2612, 8-9=-1484/2612
 WEBS 1-11=-1134/2069, 2-11=-401/338, 3-11=-661/445, 3-8=-639/431, 5-8=-407/344,
 6-8=-1145/2094

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1, 2022

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T29	Flat	2	1	ISO479090

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.
 Mon Feb 28 10:55:57 2022
 Page 2
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- LOAD CASE(S)** Standard
- Uniform Loads (plf)
 - Vert: 4-15=-58, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479091
J220198-G03R	T30	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

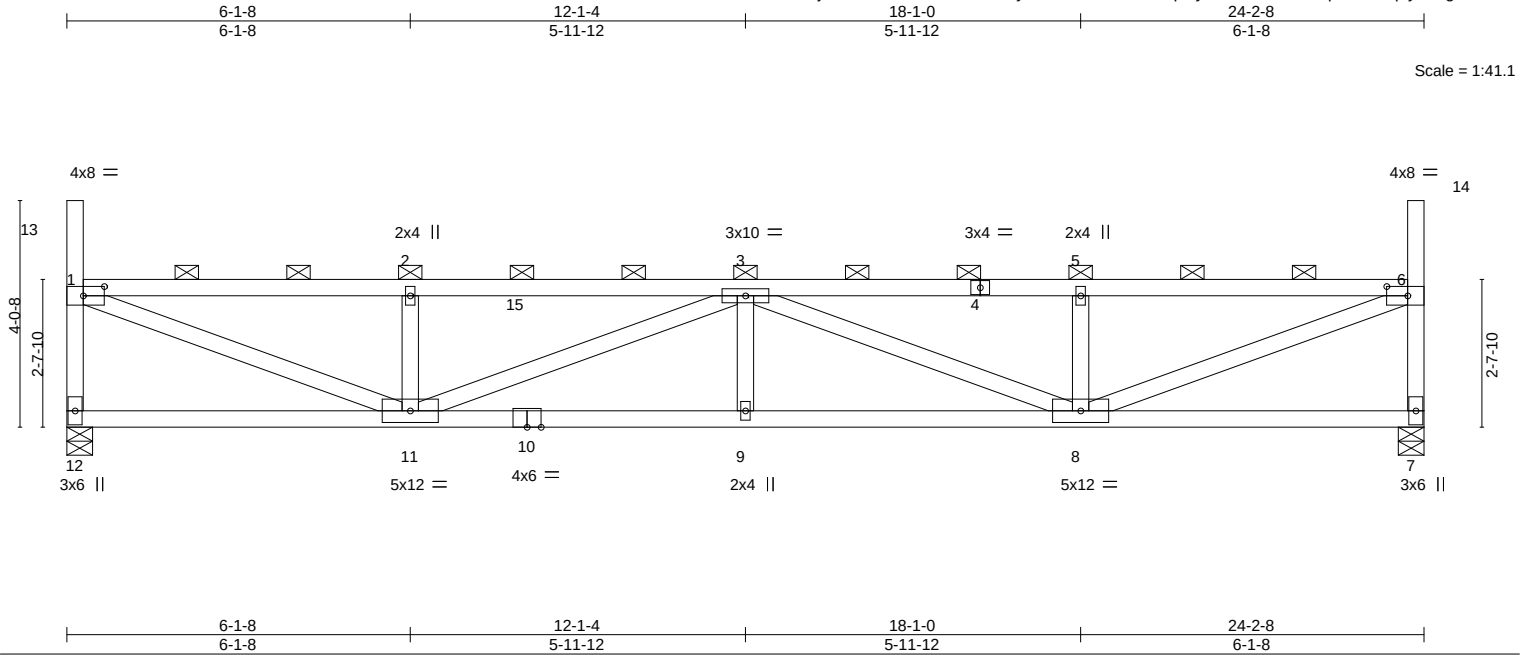
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:58 2022 Page 1
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Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.76	Vert(LL) 0.18 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.80	Vert(CT) -0.31 9-11 >917 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.05 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 98 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins (3-6-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-9-15 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-200(LC 10)
 Max Uplift 12=-73(LC 10), 7=-73(LC 11)
 Max Grav 12=1016(LC 29), 7=1016(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-955/560, 1-2=-1998/1069, 2-3=-1998/1069, 3-5=-1998/1067, 5-6=-1998/1067, 6-7=-955/561
 BOT CHORD 11-12=-361/326, 9-11=-1467/2582, 8-9=-1467/2582
 WEBS 1-11=-1128/2073, 2-11=-408/345, 3-11=-637/432, 3-8=-637/427, 5-8=-408/344, 6-8=-1131/2073

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-15=-58, 7-12=-20



March 1, 2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T30	Flat	2	1	IS0479091

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:58 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy9311-XT7RF9KuG1q6nydVec0YAxsHPqU17sueq?yZTzgdV

LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-48-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479092
J220198-G03R	T31	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

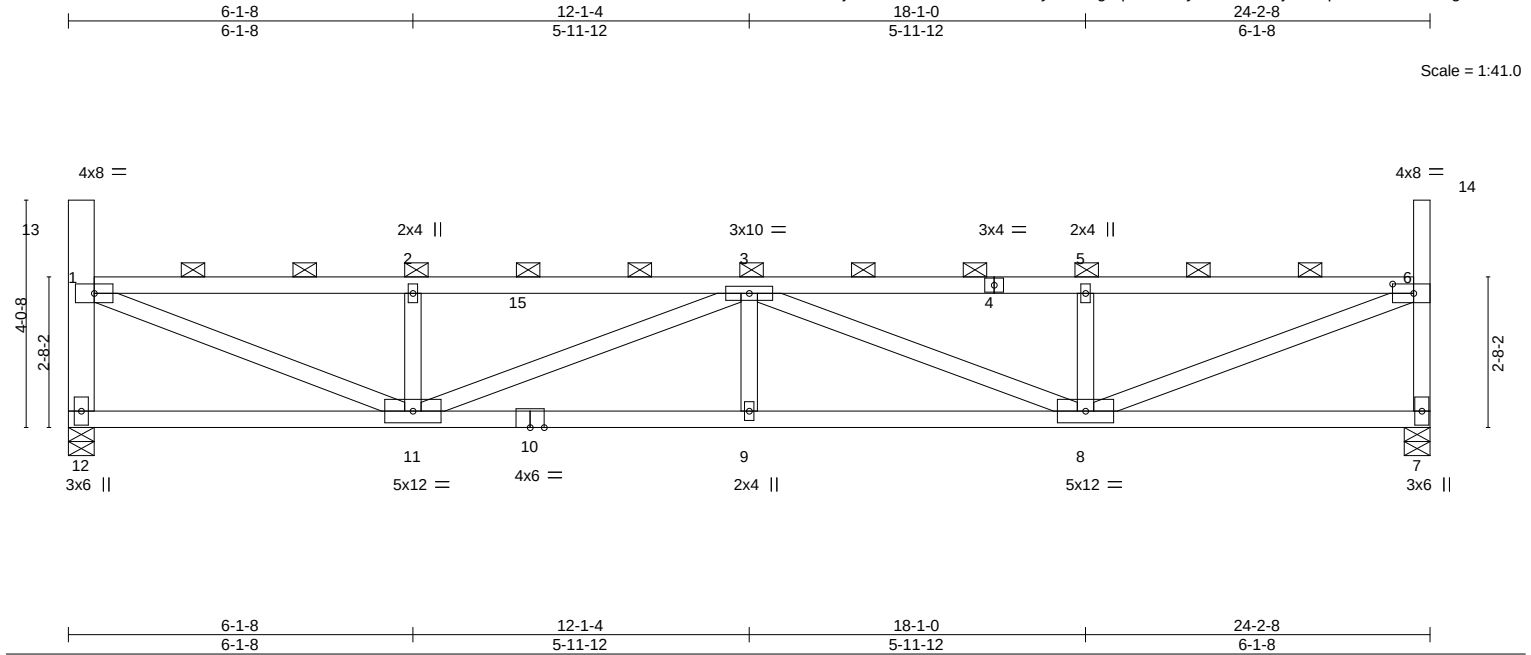
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:59 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-?ghqSVLX1LyzO6CiCjXnj9H1ApAzma1t1Uiv6vzgdfU

Plate Offsets (X,Y)-- [6:0-4-8,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.74	9	>999		197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	8-9	>958		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		7	n/a		
BCDL	10.0							Weight: 100 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 12-13: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD 2-0-0 oc purlins (3-7-7 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-10-10 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-198(LC 10)
 Max Uplift 12=-73(LC 10), 7=-73(LC 11)
 Max Grav 12=1012(LC 29), 7=1012(LC 29)

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

TOP CHORD 1-12=-952/558, 1-2=-1934/1036, 2-3=-1934/1036, 3-5=-1955/1045, 5-6=-1955/1045,
 6-7=-952/559
 BOT CHORD 11-12=-357/322, 9-11=-1436/2521, 8-9=-1436/2521
 WEBS 1-11=-1100/2009, 2-11=-401/338, 3-11=-641/430, 3-8=-620/416, 5-8=-408/344,
 6-8=-1110/2033

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1,2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T31	Flat	2	1	ISO479092

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:55:59 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXLy93I1-?ghqSVLX1LyzO6CiCjXnj9H1ApAzma1tUiv6vzgdfU

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 4-15=-58, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

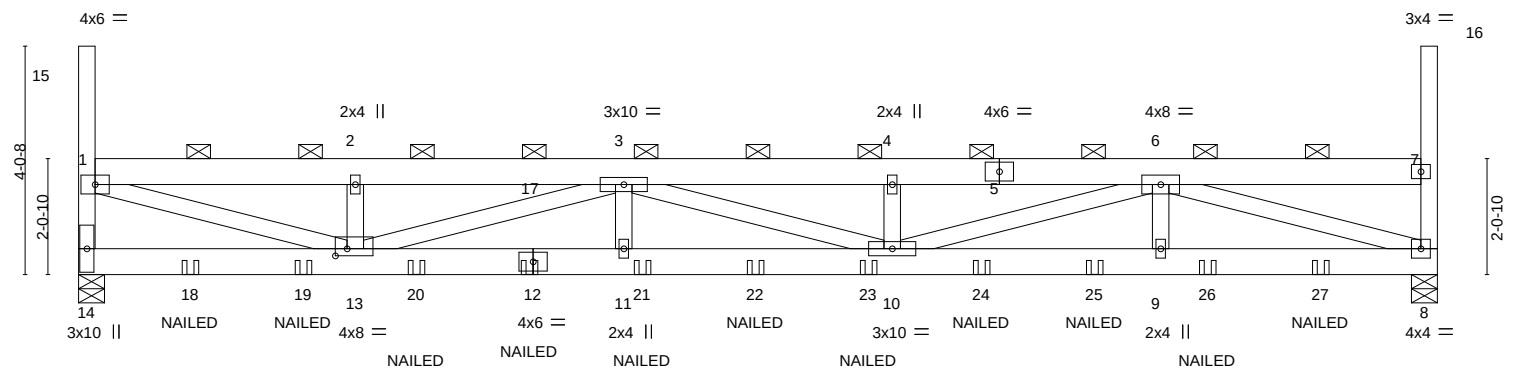
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0479093
J220198-03F	T32	FLAT GIRDER	2	2	Job Reference (optional)	

Mill Creek Truss, Halstead, KS 67056, Mitek

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ID:6EjRszEEA1occ44RuFMRXLy9311-OKi2uqihoyralUdSfeevDnW27xfbhaJ57iSYKLzfPFS

4-10-12 9-7-12 14-4-12 19-1-12 24-0-8
4-10-12 4-9-0 4-9-0 4-9-0 4-10-12

Scale = 1:40.8



4-10-12	9-7-12	14-4-12	19-1-12	24-0-8
4-10-12	4-9-0	4-9-0	4-9-0	4-10-12

Plate Offsets (X,Y)-- [13:0-2-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Lumber DOL 1.15	BC 0.33	Vert(LL) 0.27 10-11 >999 240		
TCDL 10.0	Rep Stress Incr NO	WB 0.40	Vert(CT) -0.26 10-11 >999 180		
BCLL 0.0 *	Code IBC2018/TPI2014	Matrix-MS	Horz(CT) -0.04 8 n/a n/a		
BCDL 10.0				Weight: 249 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-15, 1-7, 7-16, except end verticals.
BOT CHORD 2x6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 9-11-5 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (lb/size) 14=1344/0-5-8, 8=1342/0-5-8
Max Horz 14=232(LC 11)
Max Uplift 14=1000(LC 10), 8=876(LC 11)
Max Grav 14=1371(LC 29), 8=1371(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1242/889, 1-2=-3261/2601, 2-17=-3261/2601, 3-17=-3261/2601, 3-4=-4840/3777, 4-5=-4840/3777, 5-6=-4840/3777, 6-7=-224/266
BOT CHORD 14-18=-482/403, 18-19=-482/403, 13-19=-482/403, 13-20=-3818/4841, 12-20=-3818/4841, 11-12=-3818/4841, 11-21=-3818/4841, 21-22=-3818/4841, 22-23=-3818/4841, 10-23=-3818/4841, 10-24=-2398/3266, 24-25=-2398/3266, 9-25=-2398/3266, 9-26=-2398/3266, 26-27=-2398/3266, 8-27=-2398/3266
WEBS 1-13=-2516/3266, 2-13=-286/280, 3-13=-1666/1358, 3-11=-340/248, 4-10=-279/263, 6-10=-1465/1659, 6-9=-270/255, 6-8=-3274/2418

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1000 lb uplift at joint 14 and 876 lb uplift at joint 8.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1,2022

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0479093
J220198-03F	T32	FLAT GIRDER	2	2	Job Reference (optional)	

Mill Creek Truss, Halstead, KS 67056, Mitek

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 04:08:33 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy9311-OKi2uqihoyralUdSfeevDnW27xfbhaJ57iSYKLzfPFS**NOTES-**

- 11) Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-17=-58, 8-14=-20
Concentrated Loads (lb)
Vert: 12=-66(B) 18=-66(B) 19=-66(B) 20=-66(B) 21=-66(B) 22=-66(B) 23=-66(B) 24=-66(B) 25=-66(B) 26=-66(B) 27=-66(B)
Trapezoidal Loads (plf)
Vert: 1=-73-to-17=-58, 5=-58-to-7=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-17=-48, 8-14=-20
Concentrated Loads (lb)
Vert: 12=-55(B) 18=-55(B) 19=-55(B) 20=-55(B) 21=-55(B) 22=-55(B) 23=-55(B) 24=-55(B) 25=-55(B) 26=-55(B) 27=-58(B)
Trapezoidal Loads (plf)
Vert: 1=-60-to-17=-48, 5=-49-to-7=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-17=-36, 8-14=-20
Horz: 1-14=18, 1-15=37, 7-8=5, 7-16=25
Concentrated Loads (lb)
Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=93(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-17=-36, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-37
Concentrated Loads (lb)
Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=61(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-17=-36, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Concentrated Loads (lb)
Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B) 27=82(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-17=-36, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Concentrated Loads (lb)
Vert: 12=116(B) 18=116(B) 19=116(B) 20=116(B) 21=116(B) 22=116(B) 23=116(B) 24=116(B) 25=116(B) 26=116(B)
27=82(B)
Trapezoidal Loads (plf)
Vert: 1=-47-to-17=-36, 5=-36-to-7=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-17=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 12=-66(B) 18=-66(B) 19=-66(B) 20=-66(B) 21=-66(B) 22=-66(B) 23=-66(B) 24=-66(B) 25=-66(B) 26=-66(B) 27=-68(B)
Trapezoidal Loads (plf)
Vert: 1=-75-to-17=-60, 5=-60-to-7=-75

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479094
J220198-G03R	T33	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXly9311-QFNy4XNPKGKXfZxGtR4ULnvV7079zvhtZSzAiEzgdR



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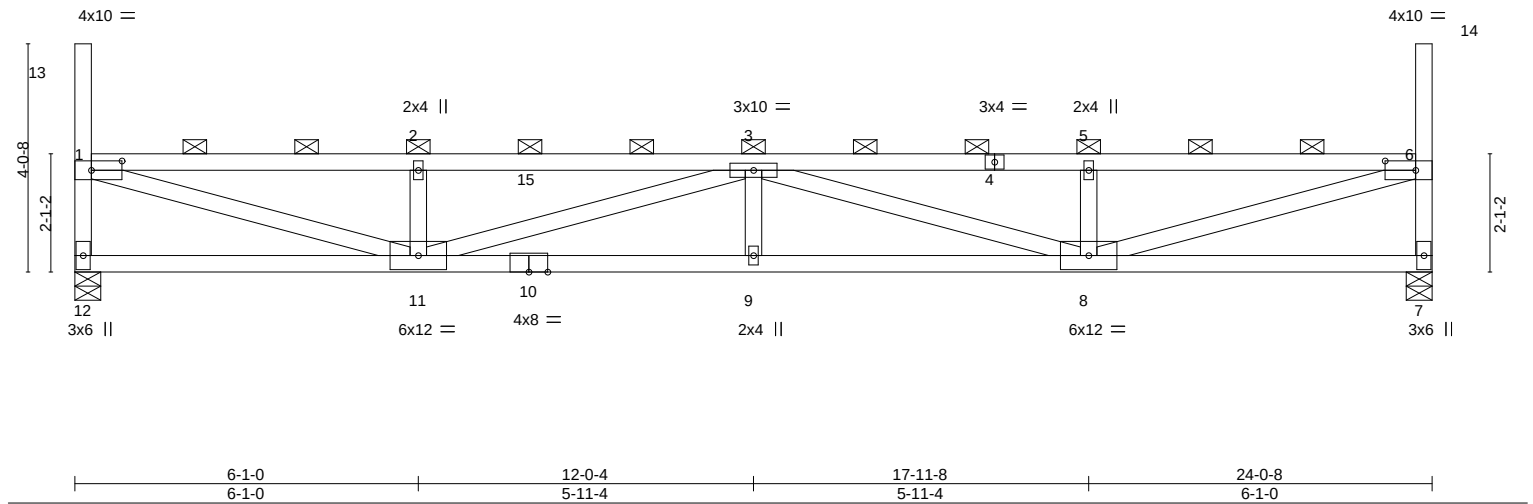


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.72	Vert(LL) 0.28	9	>999	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.97	Vert(CT) -0.49	9	>577	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.94	Horz(CT) 0.07	7	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 95 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-0-3 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-3-3 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-228(LC 12)
 Max Uplift 12=-75(LC 10), 7=-75(LC 11)
 Max Grav 12=1009(LC 29), 7=1009(LC 29)

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

TOP CHORD 1-12=-944/563, 1-2=-2546/1369, 2-3=-2546/1369, 3-5=-2546/1367, 5-6=-2546/1367, 6-7=-944/564
 BOT CHORD 11-12=-467/418, 9-11=-1853/3300, 8-9=-1853/3300
 WEBS 1-11=-1410/2556, 2-11=-400/343, 3-11=-800/560, 3-8=-800/551, 5-8=-400/341, 6-8=-1415/2556

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-15=-58, 7-12=-20



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T33	Flat	2	1	IS0479094

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.

Mon Feb 28 10:56:02 2022 Page 2
 ID:6EjRszEEA1occ44RuFMRXly93l1-QFNy4XNPKGKXFZxGtR4ULnvV7079zvhtZSzAiEzgdR

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T34	Flat	2	1	I50479095
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:03 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-uRxKIsO14aSOtjVTR9bjt?Sg8QUkiN2do5jjFHzgdfQ

LOAD CASE(S) Standard

- Trapezoidal Loads (plf)
Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-50, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-15=-48, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-15=-48, 4=-49-to-6=-63
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-40
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=19, 1-13=87, 6-7=34, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=54, 7-12=-12
Horz: 1-12=-34, 1-13=-55, 6-7=-19, 6-14=-87
Trapezoidal Loads (plf)
Vert: 1=39-to-15=54, 4=53-to-6=39
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=-23, 1-13=36, 6-7=-31, 6-14=55
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-32, 7-12=-20
Horz: 1-12=31, 1-13=-55, 6-7=23, 6-14=-36
Trapezoidal Loads (plf)
Vert: 1=-47-to-15=-32, 4=-33-to-6=-47
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=12, 1-13=50, 6-7=18, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-18, 1-13=-33, 6-7=-12, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=24, 1-13=50, 6-7=6, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-6, 1-13=-33, 6-7=-24, 6-14=-50
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1

Continued on page 3

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T34	Flat	2	1	I50479095
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:03 2022 Page 3
ID:6EjRszEEA1occ44RuFMRXLy9311-uRxKIsO14aSOtjVTR9bjt?Sg8QUkiN2do5jjFhzgdfQ**LOAD CASE(S)** Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=7, 1-13=-33, 6-7=15, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=16, 7-12=-12
Horz: 1-12=-15, 1-13=-33, 6-7=-7, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=1-to-15=16, 4=16-to-6=1
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=19, 1-13=-33, 6-7=4, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-3, 7-12=-20
Horz: 1-12=-4, 1-13=-33, 6-7=-19, 6-14=33
Trapezoidal Loads (plf)
Vert: 1=-18-to-15=-3, 4=-4-to-6=-18
- 20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 4-15=-20, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-35-to-15=-20, 4=-20-to-6=-35
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-36, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-51-to-15=-36, 4=-36-to-6=-51
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
Trapezoidal Loads (plf)
Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-15=-38, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Continued on page 4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T34	Flat	2	1	ISO479095

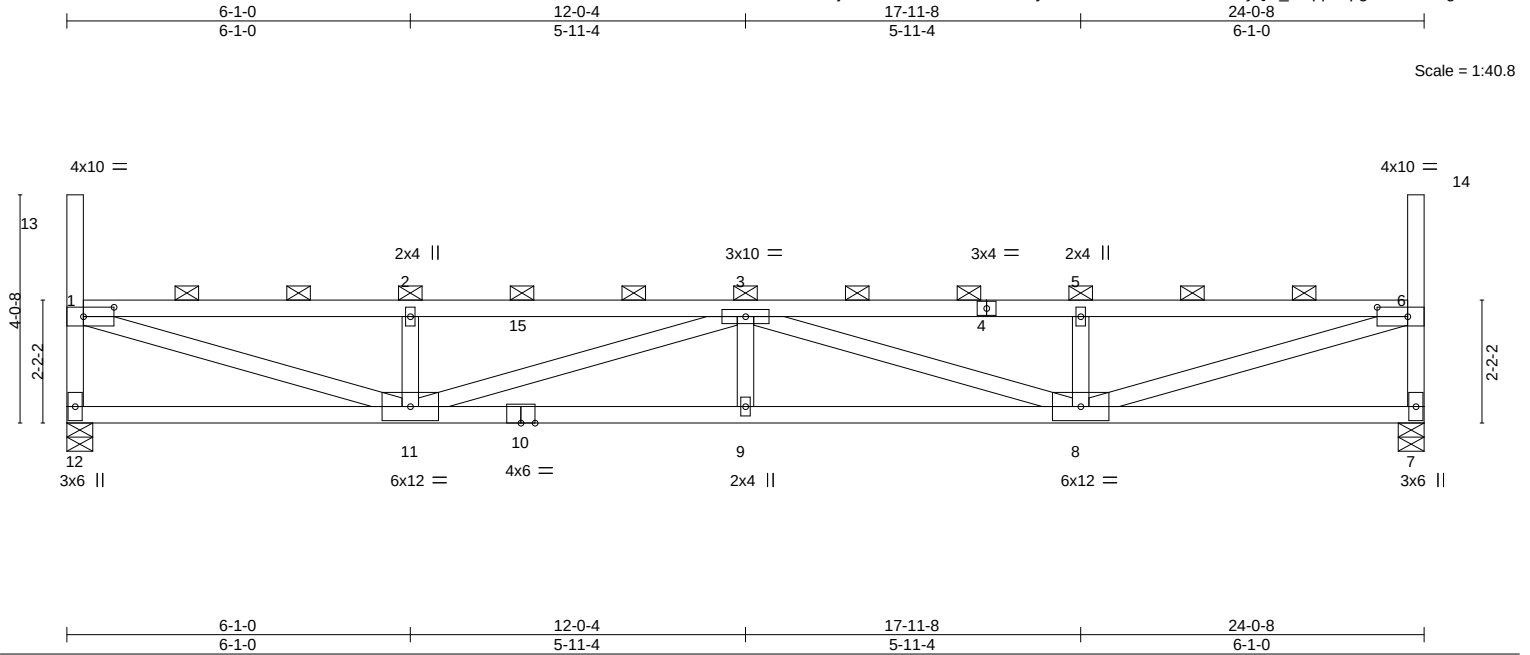
Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.
 Mon Feb 28 10:56:03 2022
 Page 4
 ID:6EjRszEEA1occ44RuFMRXLy9311-uRxKIsO14aSOtjVTR9bjt?Sg8QUkiN2do5jjFhzgdfQ

LOAD CASE(S) Standard

- Trapezoidal Loads (plf)
 - Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-38, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-53-to-15=-38, 4=-38-to-6=-53
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 30) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-28, 7-12=-12
 - Horz: 1-12=-16, 1-13=33, 6-7=-16, 6-14=33
 - Trapezoidal Loads (plf)
 - Vert: 1=-43-to-15=-28, 4=-29-to-6=-43
- 31) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=4, 7-12=-12
 - Horz: 1-12=16, 1-13=33, 6-7=16, 6-14=33
 - Trapezoidal Loads (plf)
 - Vert: 1=-11-to-15=4, 4=4-to-6=-11
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75
- 34) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-50, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-65-to-15=-50, 4=-50-to-6=-65
- 35) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-50, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-65-to-15=-50, 4=-50-to-6=-65

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479096
J220198-G03R	T35	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:04 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93I1-MdViVCPrtFv4f?S7yQC_s8qqHRpgm0ISGn7zgdP

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.26 9 >999	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.45 9-11 >628				
TCDL	10.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.06 7 n/a				
BCLL	0.0 *	Code IBC2018/TP12014		Matrix-MS							
BCDL	10.0										
								Weight: 95 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-1-8 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-4-5 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-224(LC 10)
 Max Uplift 12=-75(LC 10), 7=-75(LC 11)
 Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-945/562, 1-2=-2437/1310, 2-3=-2437/1310, 3-5=-2437/1308, 5-6=-2437/1308,
 6-7=-945/563
 BOT CHORD 11-12=-448/402, 9-11=-1779/3157, 8-9=-1779/3157
 WEBS 1-11=-1355/2459, 2-11=-401/344, 3-11=-766/535, 3-8=-766/527, 5-8=-401/342,
 6-8=-1360/2459

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-15=-58, 7-12=-20



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

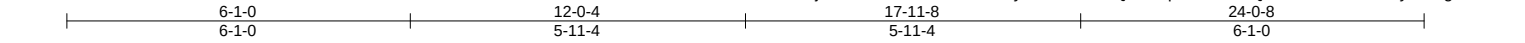
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T35	Flat	2	1	IS0479096

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.
 Mon Feb 28 10:56:04 2022 Page 2
 ID:6EjRszEEA1occ44RuFMRXLy93l1-MdViVCPfrrtaFvt4f?s7yQC_s8qqHRpgm0ISGn7zgdfP

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479097
J220198-G03R	T36	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:06 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93i1-10cTwuQwNVqzkBE26H9QVd4CtdV3vkN3U3yNr?zgdfN

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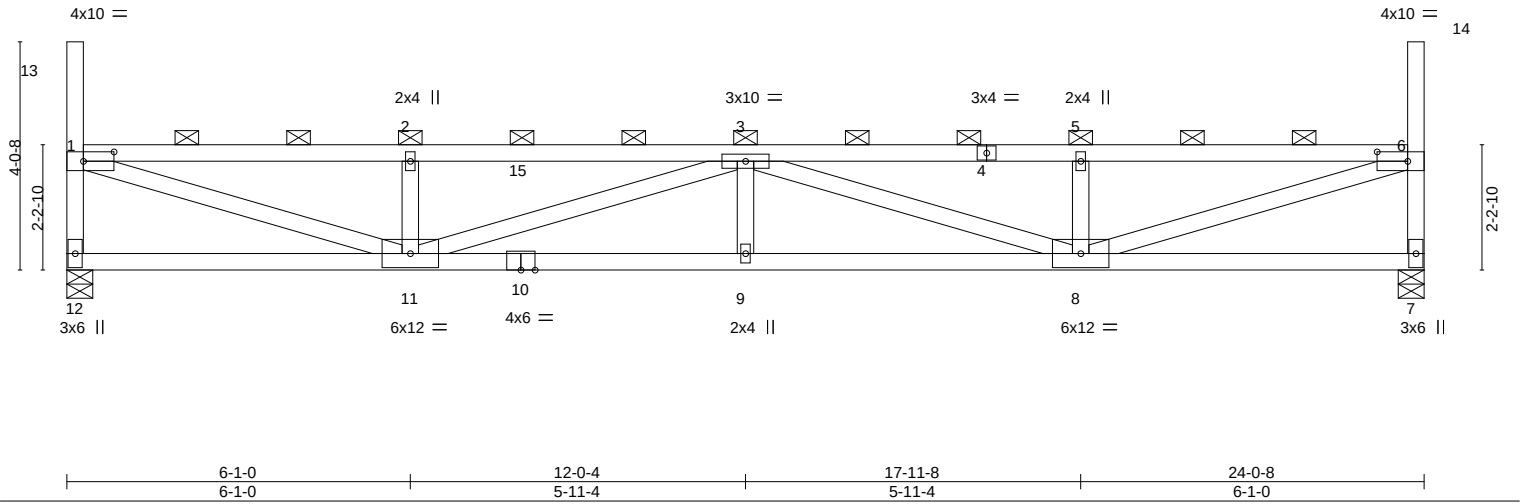


Plate Offsets (X,Y)-- [1:0-6-8,0-2-0], [6:0-6-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.91	Vert(LL) 0.25 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.89	Vert(CT) -0.44 9-11 >654 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
BCDL 10.0	Code IBC2018/TP12014			Weight: 95 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-2-2 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-4-14 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=222(LC 11)
 Max Uplift 12=-75(LC 10), 7=-75(LC 11)
 Max Grav 12=1009(LC 29), 7=1009(LC 29)

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

TOP CHORD 1-12=-946/562, 1-2=-2386/1283, 2-3=-2386/1283, 3-5=-2386/1281, 5-6=-2386/1281,
 6-7=-946/563
 BOT CHORD 11-12=-439/394, 9-11=-1744/3090, 8-9=-1744/3090
 WEBS 1-11=-1329/2413, 2-11=-401/344, 3-11=-751/523, 3-8=-751/516, 5-8=-401/342,
 6-8=-1334/2413

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 12 and 75 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-15=-58, 7-12=-20



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T36	Flat	2	1	ISO479097

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:06 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-I0cTwuQwNVqzkBE26H9QVd4CtdV3vkN3U3yNr?zgdfN

LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

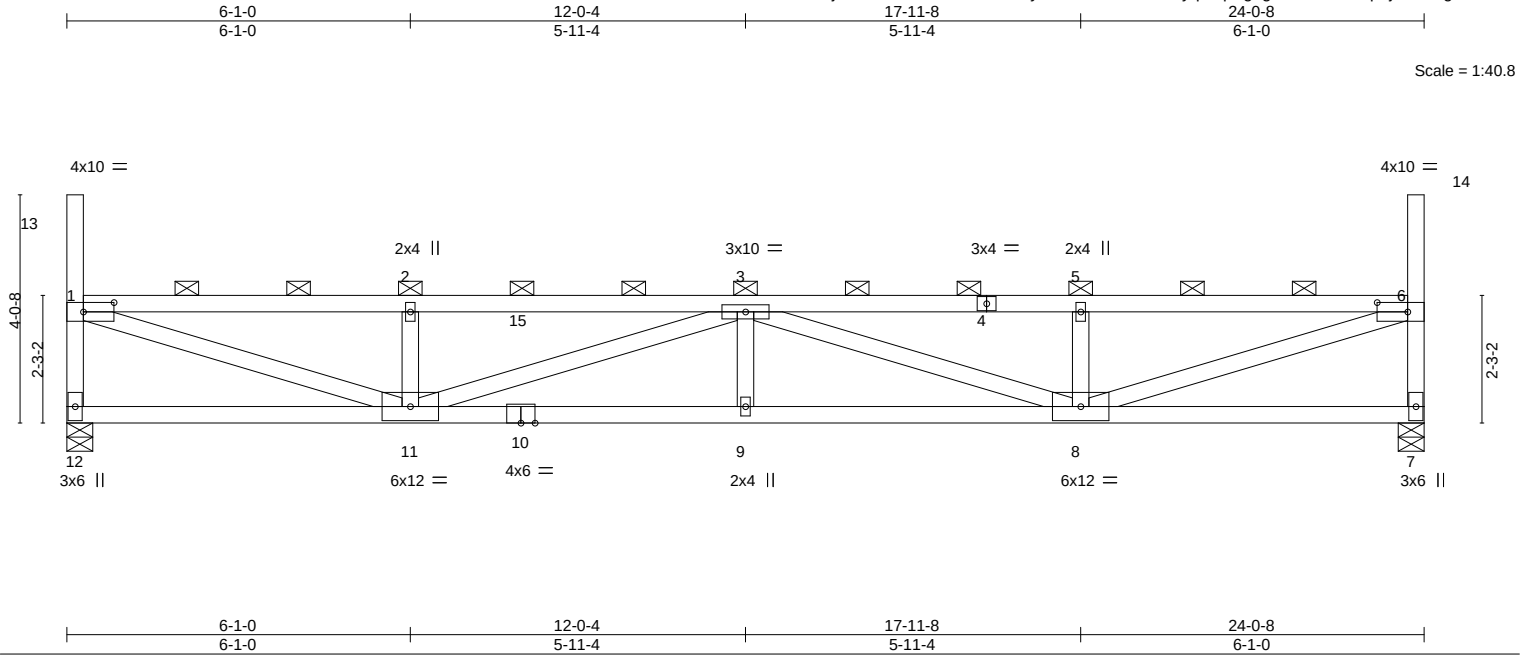
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	IS0479098
J220198-G03R	T37	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:07 2022 Page 1
ID:6EjRsZEEA1occ44RuFMRXLy9311-mCAr8ERY8oyqMLpEg?gf2rcNr1sbeBqDijhOSzgdM

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.89	Vert(LL) 0.24 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.88	Vert(CT) -0.42 9-11 >680 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
BCDL 10.0	Code IBC2018/TP12014			Weight: 95 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-2-10 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-5-7 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=220(LC 11)
 Max Uplift 12=-74(LC 10), 7=-74(LC 11)
 Max Grav 12=1009(LC 29), 7=1009(LC 29)

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

TOP CHORD 1-12=-946/562, 1-2=-2337/1256, 2-3=-2337/1256, 3-5=-2337/1255, 5-6=-2337/1255,
 6-7=-946/563
 BOT CHORD 11-12=-430/387, 9-11=-1710/3026, 8-9=-1710/3026
 WEBS 1-11=-1304/2370, 2-11=-402/344, 3-11=-736/512, 3-8=-736/505, 5-8=-402/342,
 6-8=-1309/2370

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-15=-58, 7-12=-20



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T37	Flat	2	1	IS0479098

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:07 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy9311-mCAr8ERY8oyqMLpEg?gf2rcNr1sbeBqDijhxOSzgdffM

LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



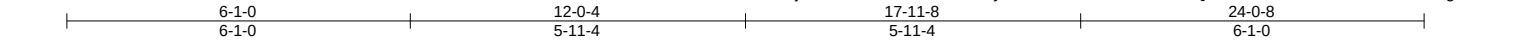
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479099
J220198-G03R	T38	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:08 2022 Page 1

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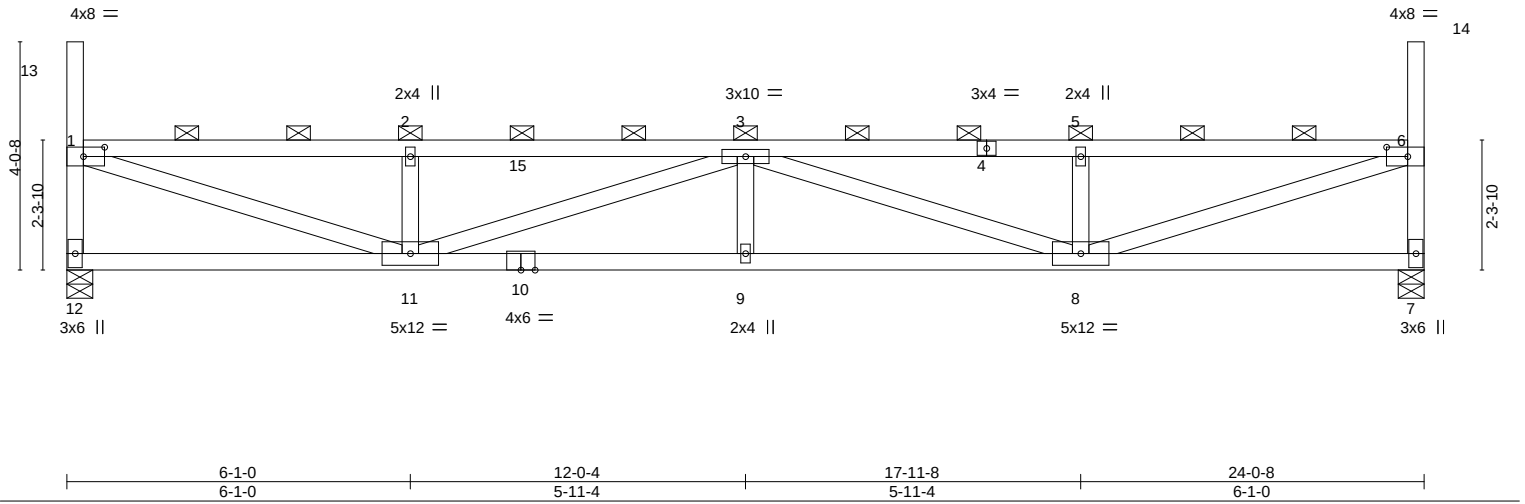


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) 0.23 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.86	Vert(CT) -0.40 9-11 >707 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
BCDL 10.0	Code IBC2018/TP12014			Weight: 96 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-3-4 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-6-0 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-217(LC 10)
 Max Uplift 12=-74(LC 10), 7=-74(LC 11)
 Max Grav 12=1009(LC 29), 7=1009(LC 29)

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

TOP CHORD 1-12=-947/562, 1-2=-2290/1231, 2-3=-2290/1231, 3-5=-2290/1229, 5-6=-2290/1229,
 6-7=-947/562
 BOT CHORD 11-12=-422/380, 9-11=-1678/2964, 8-9=-1678/2964
 WEBS 1-11=-1281/2328, 2-11=-402/344, 3-11=-722/501, 3-8=-722/495, 5-8=-402/342,
 6-8=-1285/2328

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-15=-58, 7-12=-20



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T38	Flat	2	1	IS0479099

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:08 2022 Page 2
ID:6EjRsZEEA1occ44RuFMRXly93I1-EPkDLASAv65hzUOQEiBua29YoRC6NeHMxNRUwuzgdfL

LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

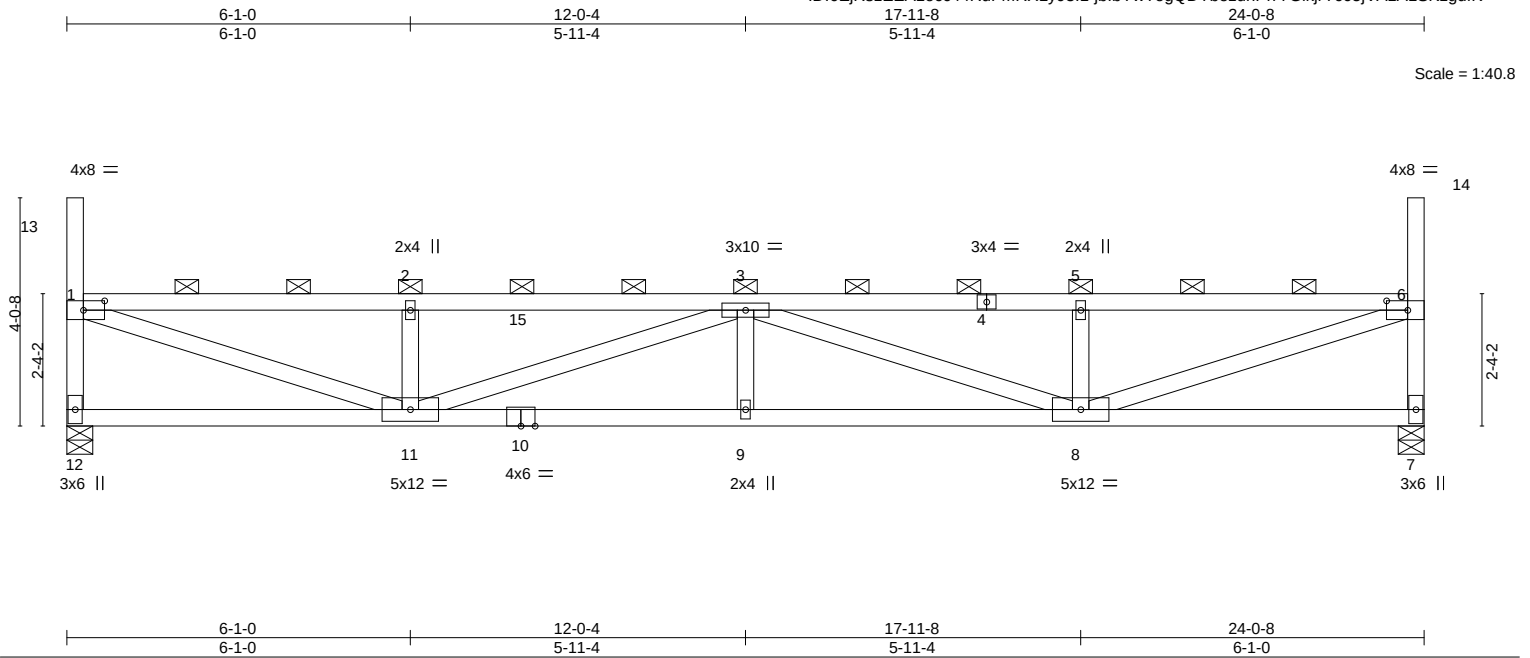
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479100
J220198-G03R	T39	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:09 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy9311-jblbYwTogQDYbezdnPi77GikjrYc65jVA1A1SKzgdfk

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	in (loc)	I/defl	L/d		MT20	197/144
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.85	Vert(LL)	0.22 9	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Vert(CT)	-0.39 9-11	>734	180		
BCLL	0.0 *	Code IBC2018/TP12014		Matrix-MS		Horz(CT)	0.06 7	n/a	n/a		
BCDL	10.0									Weight: 96 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-3-13 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-6-9 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
 Max Horz 12=215(LC 11)
 Max Uplift 12=-74(LC 10), 7=-74(LC 11)
 Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-947/562, 1-2=-2245/1207, 2-3=-2245/1207, 3-5=-2244/1205, 5-6=-2244/1205, 6-7=-947/562
 BOT CHORD 11-12=-413/373, 9-11=-1646/2905, 8-9=-1646/2905
 WEBS 1-11=-1258/2288, 2-11=-403/344, 3-11=-709/491, 3-8=-709/485, 5-8=-403/342, 6-8=-1262/2288

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-15=-58, 7-12=-20



March 1, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

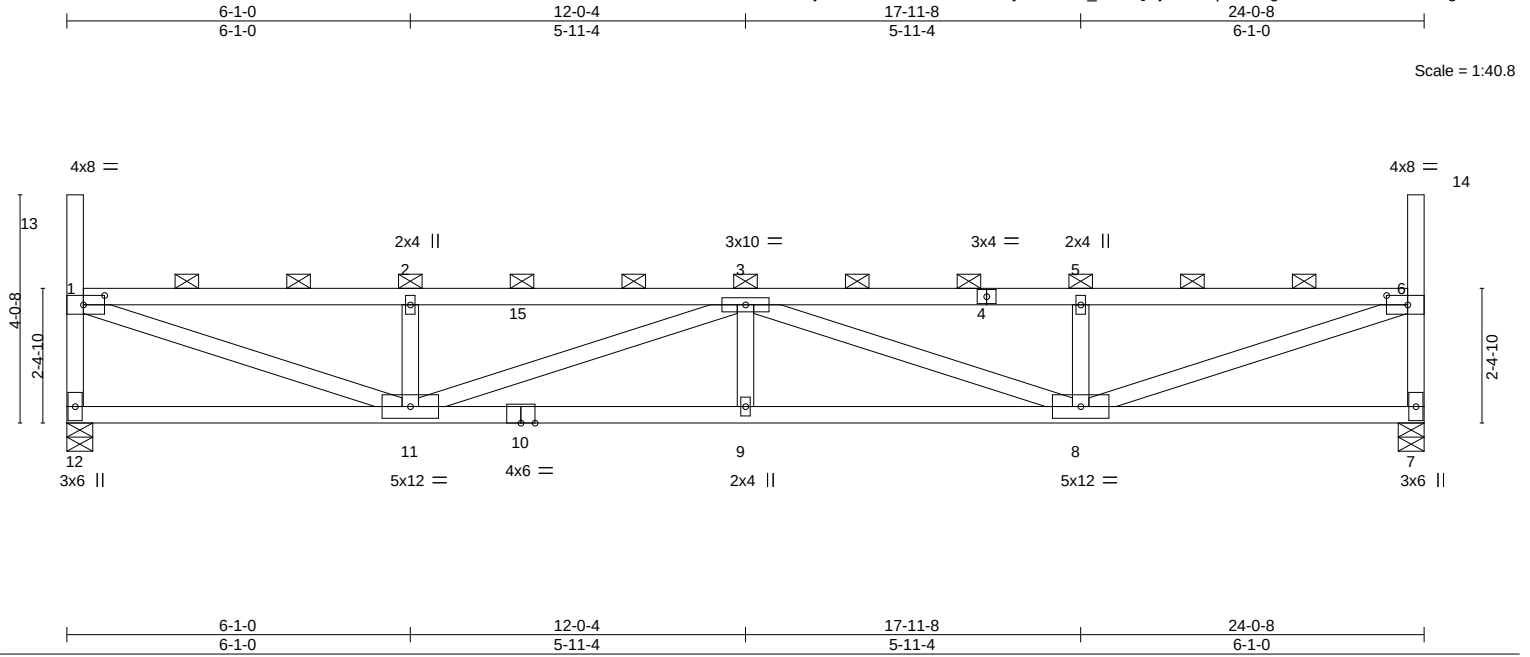
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T39	Flat	2	1	IS0479100

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.
 Mon Feb 28 10:56:09 2022
 Page 2
 ID:6EjRszEEA1occ44RuFMRXLy9311-jblbYwTogQDYbezdnPi77GikjrYc65jVA1A1SKzgdfK

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479101
J220198-G03R	T40	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLy93I1-Bns_mGTQRjLPDoYpL7DMgTEveEu6rX8fPhwb?nzgdfJ

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	in (loc)	I/defl	L/d		MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.84	0.21	9	>999	240				
TCDL	10.0	Rep Stress Incr	NO	WB	0.84	-0.37	9-11	>762	180				
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		0.06	7	n/a	n/a				
BCDL	10.0												
										Weight: 96 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	2-0-0 oc purlins (3-4-6 max.): 1-13, 1-6, 6-14, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 4-7-1 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-213(LC 10)
 Max Uplift 12=-74(LC 10), 7=-74(LC 11)
 Max Grav 12=1009(LC 29), 7=1009(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-947/561, 1-2=-2201/1183, 2-3=-2201/1183, 3-5=-2201/1182, 5-6=-2201/1182, 6-7=-947/562
 BOT CHORD 11-12=-405/366, 9-11=-1616/2848, 8-9=-1616/2848
 WEBS 1-11=-1236/2250, 2-11=-403/344, 3-11=-696/481, 3-8=-696/475, 5-8=-403/343, 6-8=-1240/2249

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 12 and 74 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-15=-58, 7-12=-20



March 1, 2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T40	Flat	2	1	I50479101

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:10 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93l1-Bns_mGTQRjLPDoYpL7DMgTEveEu6rX8fPhwb?nzdGfJ

LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T41	Flat	2	1	IS0479102

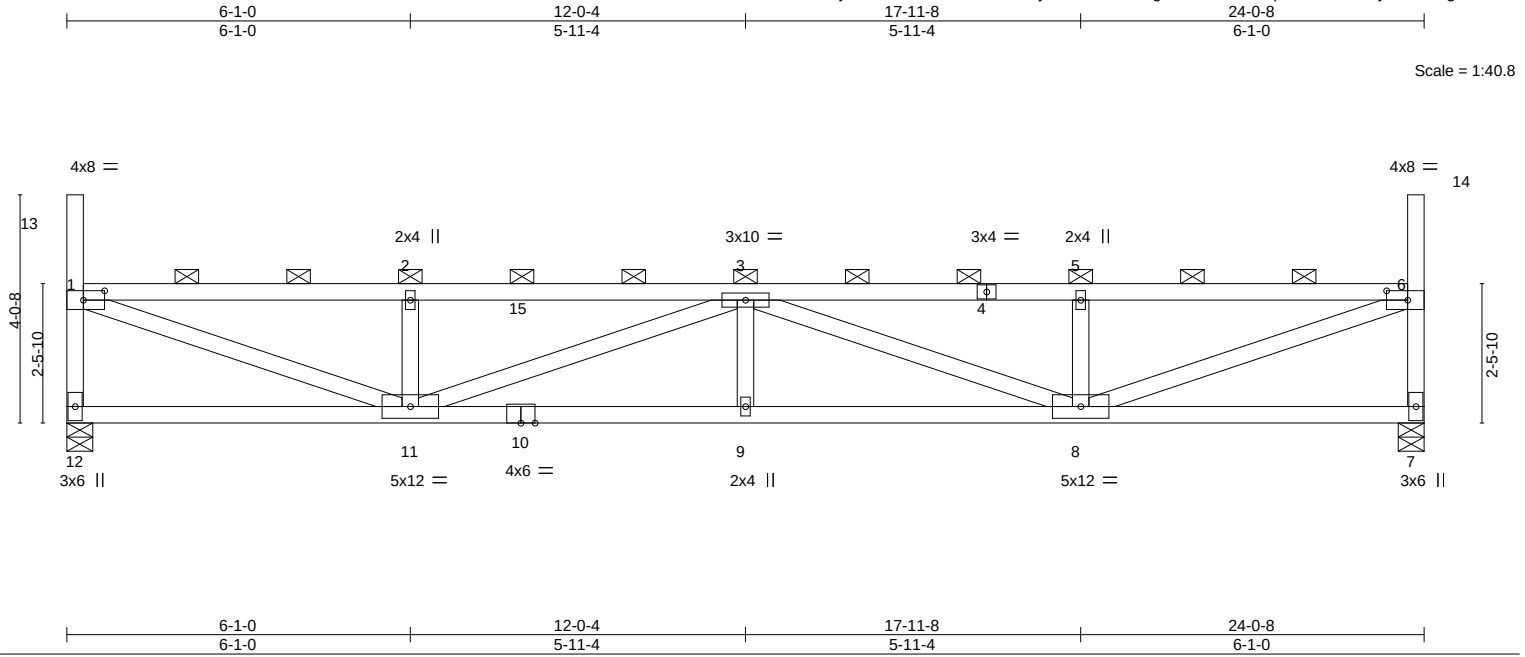
Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.

Mon Feb 28 10:56:11 2022 Page 2
 ID:6EjRsZEEA1occ44RuFMRXly93l1-f_QMzbU2C1TGqy7?vqlbChn4ZeFba?ZodLf8XDzgdfl

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479103
J220198-G03R	T42	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:12 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy9311-7AzkBXvgzLb7S6iBTYGqluKFT2a3JSzys?Ph3fzgdfH

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.20 9 >999	MT20		197/144	
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.35 9-11 >818				
TCDL	10.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.05 7 n/a				
BCLL	0.0 *	Code IBC2018/TP12014		Matrix-MS							
BCDL	10.0										
								Weight: 96 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-5-6 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-8-2 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-209(LC 10)
 Max Uplift 12=-73(LC 10), 7=-73(LC 11)
 Max Grav 12=1009(LC 29), 7=1009(LC 29)

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

TOP CHORD 1-12=-948/561, 1-2=-2119/1139, 2-3=-2119/1139, 3-5=-2119/1138, 5-6=-2119/1138,
 6-7=-948/561
 BOT CHORD 11-12=-390/352, 9-11=-1559/2740, 8-9=-1559/2740
 WEBS 1-11=-1194/2177, 2-11=-404/344, 3-11=-672/463, 3-8=-672/457, 5-8=-404/343,
 6-8=-1198/2177

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TP1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-15=-58, 7-12=-20



March 1, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T42	Flat	2	1	I50479103

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:12 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXly93I1-7AzkBXvgzLb7S6iBTYGqluKFT2a3JSzys?Ph3fzgdfH

LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479104
J220198-G03R	T43	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:13 2022 Page 1

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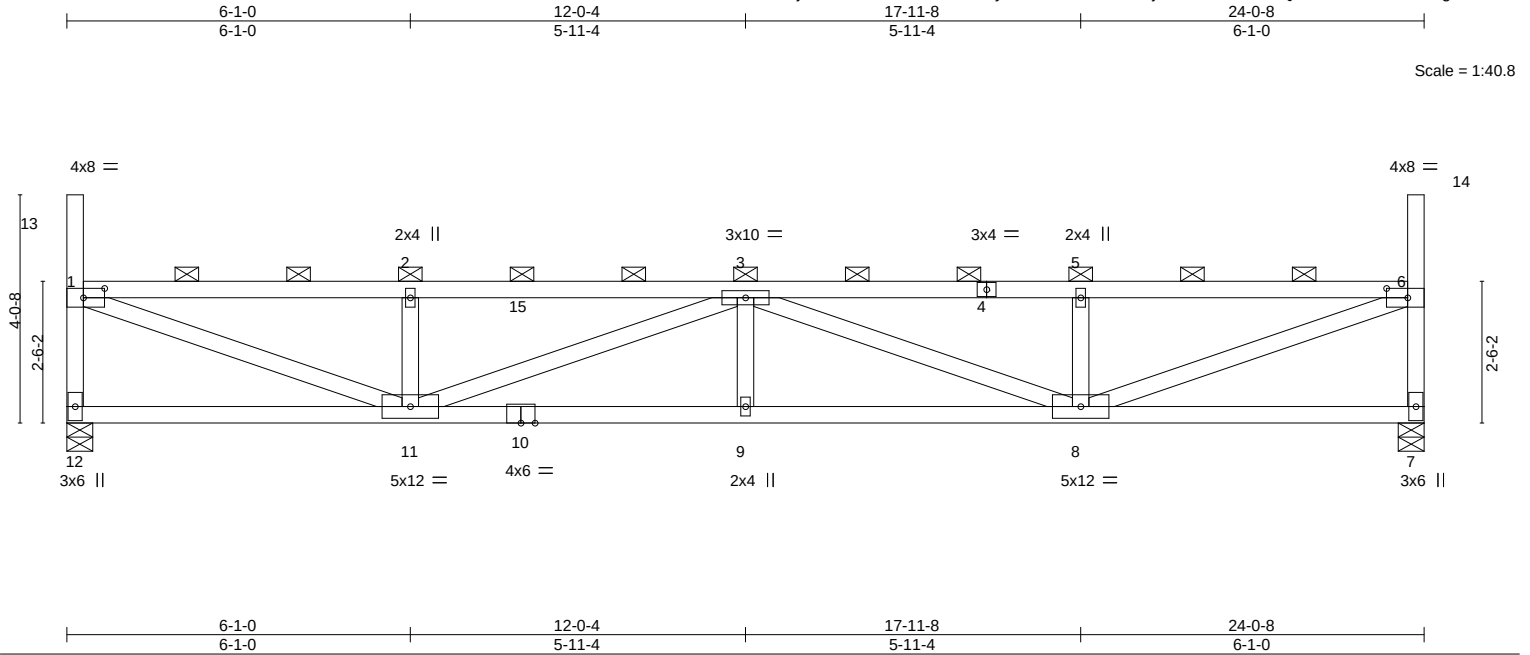


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.79	Vert(LL) 0.19 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.81	Vert(CT) -0.34 9-11 >847 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.05 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 97 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-5-15 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-8-10 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-206(LC 10)
 Max Uplift 12=-73(LC 10), 7=-73(LC 11)
 Max Grav 12=1009(LC 29), 7=1009(LC 29)

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

TOP CHORD 1-12=-948/560, 1-2=-2080/1118, 2-3=-2080/1118, 3-5=-2080/1117, 5-6=-2080/1117, 6-7=-948/561
 BOT CHORD 11-12=-382/346, 9-11=-1532/2689, 8-9=-1532/2689
 WEBS 1-11=-1175/2143, 2-11=-405/344, 3-11=-661/454, 3-8=-661/448, 5-8=-405/343, 6-8=-1178/2143

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-15=-58, 7-12=-20



March 1, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T43	Flat	2	1	I50479104

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.

Mon Feb 28 10:56:14 2022 Page 2
 ID:6EjRszEEA1occ44RuFMRXly931l-3Y5UcdWxVyrqhPraazlJqJPb6sGmnMdEJJuo8YzgdfF

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

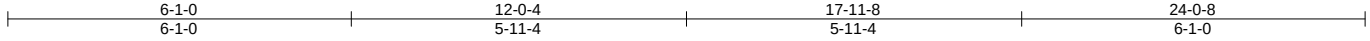
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	ISO479105
J220198-G03R	T44	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:15 2022 Page 1

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24-0-8



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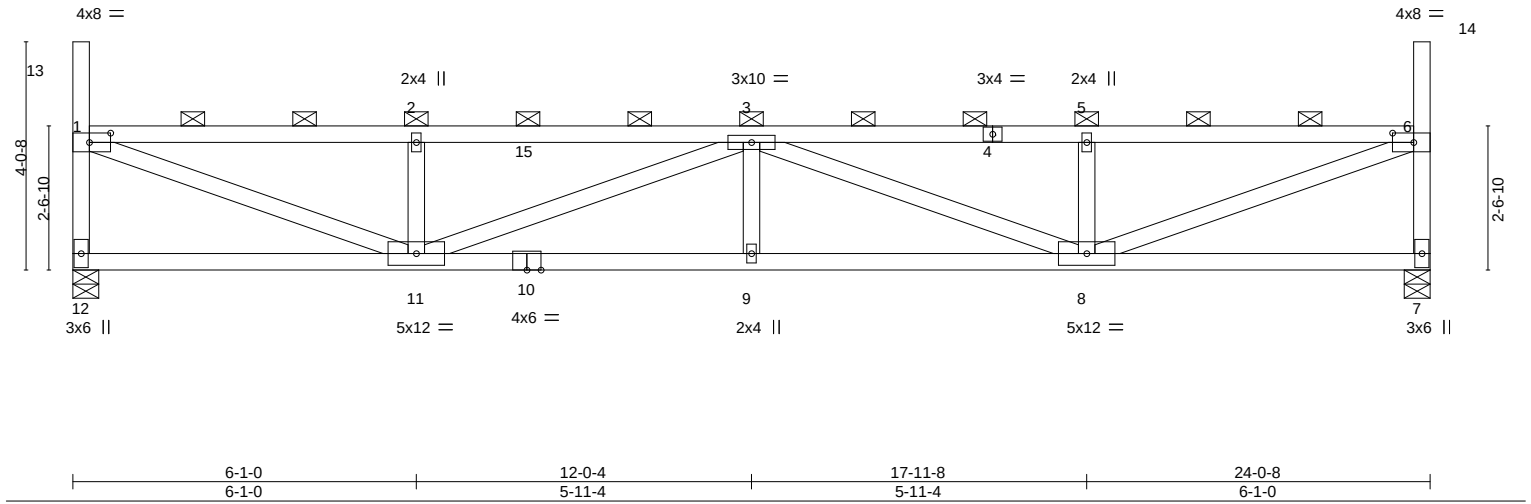


Plate Offsets (X,Y)-- [1:0-4-8,0-2-0], [6:0-4-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.59	Vert(LL) 0.19	9	>999	240	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.78	Vert(CT) -0.33	9-11	>876	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.80	Horz(CT) 0.05	7	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS						
BCDL 10.0	Code IBC2018/TP12014						Weight: 97 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-6-6 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-9-2 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=-204(LC 10)
 Max Uplift 12=-73(LC 10), 7=-73(LC 11)
 Max Grav 12=1009(LC 29), 7=1009(LC 29)

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

TOP CHORD 1-12=-948/560, 1-2=-2042/1098, 2-3=-2042/1098, 3-5=-2042/1097, 5-6=-2042/1097,
 6-7=-948/561
 BOT CHORD 11-12=-375/340, 9-11=-1506/2640, 8-9=-1506/2640
 WEBS 1-11=-1156/2110, 2-11=-405/344, 3-11=-650/445, 3-8=-650/440, 5-8=-405/343,
 6-8=-1159/2110

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-15=-58, 7-12=-20



March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T44	Flat	2	1	I50479105

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.
 Mon Feb 28 10:56:15 2022 Page 2
 ID:6EjRszEEA1occ44RuFMRXLy93I1-XlftpzXZGGzhJZQm8gpYNXxm?FcDWp1OYzdMg_zgdfE

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

WARNING - Verify design parameters and READ NO TENSION THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify all design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479106
J220198-G03R	T45	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:16 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-?xDF0JYB1Z5Yxj?ziOKnvkUxszfzFGQXndNvCQzgdFD

LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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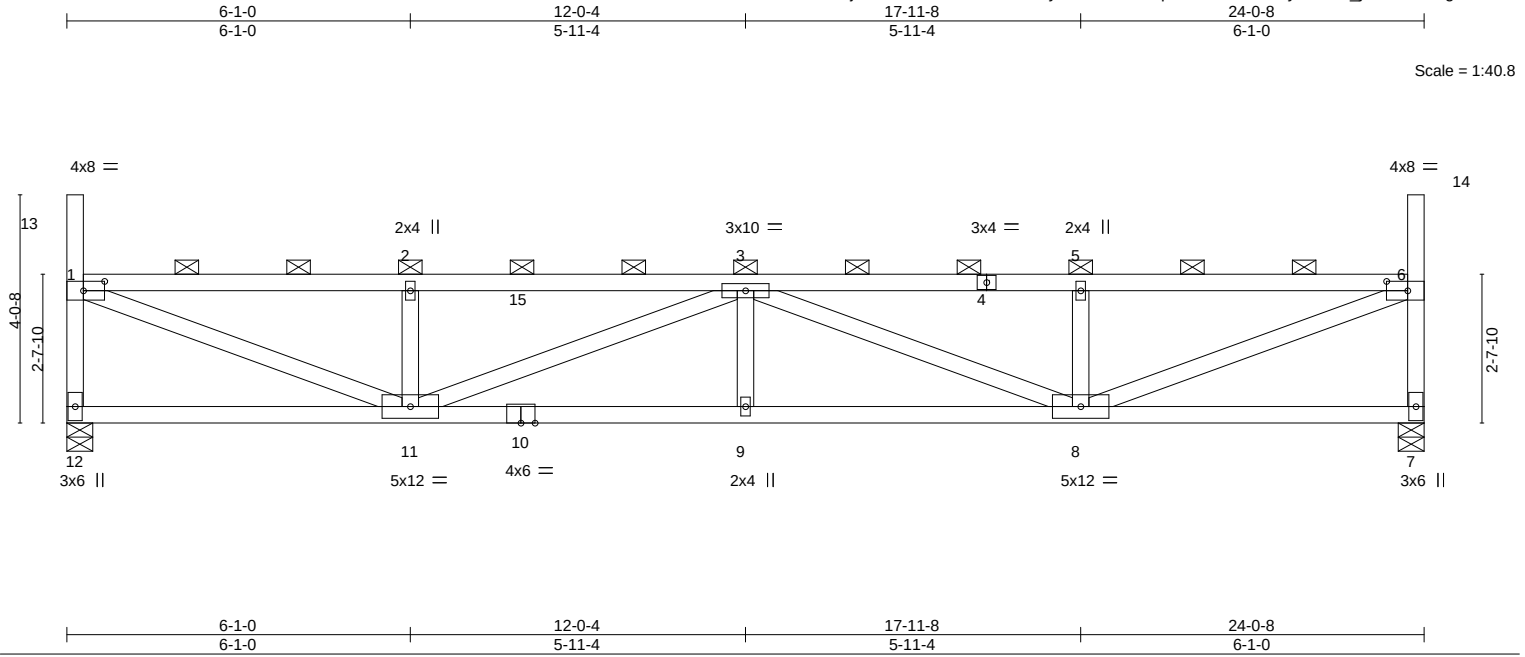
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479107
J220198-G03R	T46	Flat	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:17 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLY9311-U7ndEfZpntDPYta9F5r0Sy16k3J5_joh0H6SktzgdC

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) 0.17 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.78	Vert(CT) -0.30 9-11 >935 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.05 7 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014			Weight: 97 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-7-6 max.): 1-13, 1-6, 6-14, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-10-3 oc bracing.

REACTIONS.

(size) 12=0-5-8, 7=0-5-8
 Max Horz 12=200(LC 11)
 Max Uplift 12=-73(LC 10), 7=-73(LC 11)
 Max Grav 12=1009(LC 29), 7=1009(LC 29)

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

TOP CHORD 1-12=-949/559, 1-2=-1971/1060, 2-3=-1971/1060, 3-5=-1971/1058, 5-6=-1971/1058,
 6-7=-949/560
 BOT CHORD 11-12=-361/327, 9-11=-1456/2547, 8-9=-1456/2547
 WEBS 1-11=-1120/2047, 2-11=-406/344, 3-11=-629/429, 3-8=-629/425, 5-8=-406/343,
 6-8=-1123/2047

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 12 and 73 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 4-15=-58, 7-12=-20



March 1, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 2060116023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T46	Flat	2	1	I50479107

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:17 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy9311-U7ndEfZpntDPYta9F5r0Sy16k3J5_joh0H6SktzgdC

LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-73-to-15=-58, 4=-58-to-6=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-48, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-60-to-15=-48, 4=-49-to-6=-60

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 4-15=-36, 7-12=-20

Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25

Trapezoidal Loads (plf)

Vert: 1=-47-to-15=-36, 4=-36-to-6=-47

29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 4-15=-60, 7-12=-20

Trapezoidal Loads (plf)

Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T47	Flat	2	1	I50479108

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.

Mon Feb 28 10:56:18 2022 Page 2
 ID:6EjRszEEA1occ44RuFMRXly9311-yKL?R?ZRYBLGA19LpoNF_9ZHcTfXjABqExs0HJzgdFB

- LOAD CASE(S)** Standard
- Trapezoidal Loads (plf)
 - Vert: 1=-73-to-15=-58, 4=-58-to-6=-73
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-48, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-15=-48, 4=-49-to-6=-60
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=18, 1-13=37, 6-7=5, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 4-15=-36, 7-12=-20
 - Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-15=-36, 4=-36-to-6=-47
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 4-15=-60, 7-12=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-15=-60, 4=-60-to-6=-75

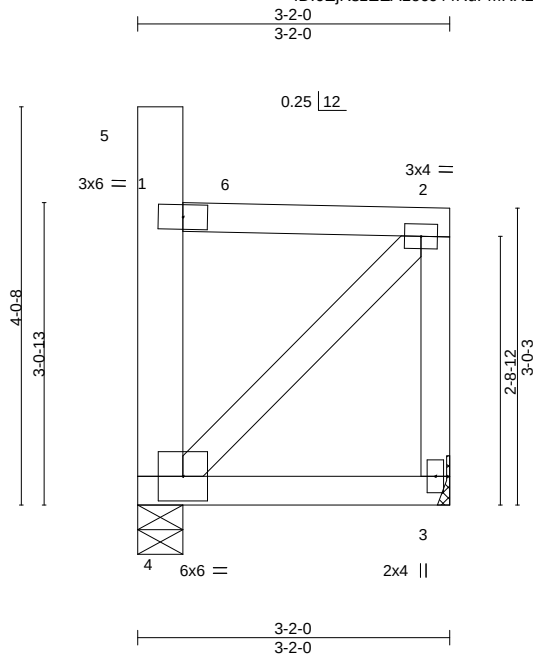
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T48	Roof Special	16	1	150479109

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EJRszEEA1occ44RuFMRXLY93I1-QWvNfLa3JUT7oBkYNWuUXN6Ybt80SoL_TbbZplzgdFA



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.16	Vert(LL) -0.00	3-4	>999	240	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT) -0.01	3-4	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.07	Horz(CT) 0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=0-5-8, 3=Mechanical
Max Horz 4=-140(LC 10)
Max Uplift 4=-100(LC 10), 3=-112(LC 11)
Max Grav 4=160(LC 26), 3=172(LC 25)

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

TOP CHORD 2-3=-147/317
WEBS 2-4=-289/353

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 4 and 112 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48
- Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1, 2022

Continued on page 2

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T48	Roof Special	16	1	I50479109
					Job Reference (optional)

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.
 Mon Feb 28 10:56:19 2022
 Page 2
 ID:6EJRszEEA1occ44RuFMRXLy93I1-QWvNfLa3JUT7oBkYNWuUXN6Ybt80SoL_TbbZplzgdA

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
 - Vert: 2-6=-41, 3-4=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-52-to-6=-41
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-36, 3-4=-20
 - Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-6=-36
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-28, 3-4=-20
 - Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
 - Trapezoidal Loads (plf)
 - Vert: 1=-40-to-6=-28
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-36, 3-4=-20
 - Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-6=-36
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-28, 3-4=-20
 - Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
 - Trapezoidal Loads (plf)
 - Vert: 1=-40-to-6=-28
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 2-6=-60, 3-4=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-6=-60

Building 3

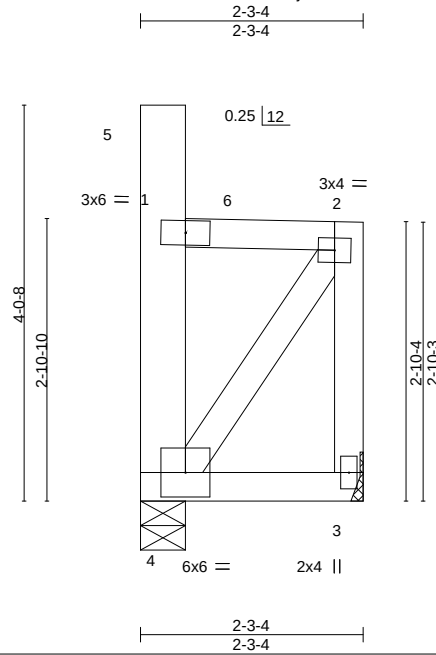
Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T49	Roof Special	20	1	150479110
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

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ID:6EjRszEEA1occ44RuFMRXLy9311-QWvNfLa3JUT7oBkYNWuUXN6Zht9kSot_TbbZplzgdFA

Scale = 1:23.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.12	Vert(LL)	-0.00	4	>999	MT20	197/144
Snow (Pl/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	-0.00	3-4	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=0-5-8
Max Horz 4=-143(LC 10)
Max Uplift 3=-166(LC 11), 4=-159(LC 10)
Max Grav 3=197(LC 12), 4=184(LC 13)

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

TOP CHORD 2-3=-342/363
WEBS 2-4=-344/492

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 3 and 159 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-48, 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-6=-48
- Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15



March 1,2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T49	Roof Special	20	1	I50479110

Mill Creek Truss, LLC,
 Halstead, KS - 67056,
 8.430 s Aug 16 2021 MiTek Industries, Inc.

Mon Feb 28 10:56:19 2022 Page 2
 ID:6EjRsZEEA1occ44RuFMRXLy9311-QWvNfLa3JUT7oBkYNWuUXN6ZHt9kSot_TbbZplzgdFA

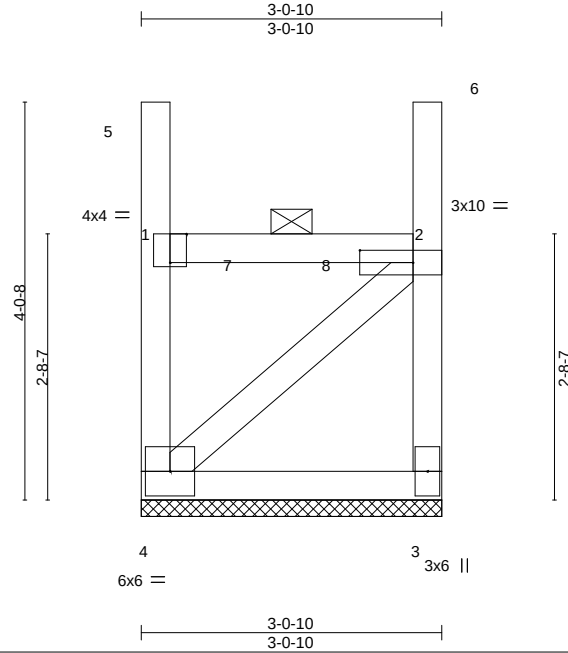
- LOAD CASE(S)** Standard
- Uniform Loads (plf)
 - Vert: 2-6=-41, 3-4=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-52-to-6=-41
 - 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-36, 3-4=-20
 - Horz: 1-4=18, 1-5=37, 1-2=5, 2-3=5
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-6=-36
 - 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-28, 3-4=-20
 - Horz: 1-4=-5, 1-5=-37, 1-2=12, 2-3=-18
 - Trapezoidal Loads (plf)
 - Vert: 1=-40-to-6=-28
 - 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-36, 3-4=-20
 - Horz: 1-4=14, 1-5=-25, 1-2=5, 2-3=3
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-6=-36
 - 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 2-6=-28, 3-4=-20
 - Horz: 1-4=-3, 1-5=-25, 1-2=12, 2-3=-14
 - Trapezoidal Loads (plf)
 - Vert: 1=-40-to-6=-28
 - 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 2-6=-60, 3-4=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-6=-60

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors	I50479111
J220198-G03R	T52	Flat Supported Gable	2	1	Job Reference (optional)	

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:20 2022 Page 1

ID:6EjRsZEEA1occ44RuFMRXLy93I1-uiSmsgbi4ob_QKJxDPj4afhcGUGBEX7iFL7LCzgdF9



Scale = 1:23.4

Plate Offsets (X,Y)-- [1:0-2-0,Edge], [2:0-6-8,0-1-8]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.27	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 18.9/20.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.14	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P					Weight: 19 lb	FT = 20%
BCDL 10.0	Code IBC2018/TPI2014							

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-5, 1-2, 2-6, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=3-0-10, 3=3-0-10
 Max Horz 4=196(LC 11)
 Max Uplift 4=-179(LC 10), 3=-179(LC 11)
 Max Grav 4=211(LC 22), 3=211(LC 21)

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

TOP CHORD 1-2=-252/212, 2-3=-318/589
 WEBS 2-4=-616/618

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4 and 179 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 21, 22, 23, 24, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

March 1, 2022

Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	T52	Flat Supported Gable	2	1	I50479111

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:20 2022 Page 2
ID:6EjRszEEA1occ44RuFMRXLy93I1-uiSmsgbi4ob_QKJkxDPj4afhcGUGBEX7iFL7LCzgd9

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 7-8=-58, 3-4=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-73-to-7=-58, 8=-58-to-2=-73
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 7-8=-48, 3-4=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-60-to-7=-48, 8=-48-to-2=-60
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 7-8=-36, 3-4=-20
 - Horz: 1-4=18, 1-5=37, 2-3=5, 2-6=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-7=-36, 8=-36-to-2=-47
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 7-8=-36, 3-4=-20
 - Horz: 1-4=-5, 1-5=-25, 2-3=-18, 2-6=-37
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-7=-36, 8=-36-to-2=-47
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 7-8=-36, 3-4=-20
 - Horz: 1-4=14, 1-5=-25, 2-3=3, 2-6=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-7=-36, 8=-36-to-2=-47
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 7-8=-36, 3-4=-20
 - Horz: 1-4=-3, 1-5=-25, 2-3=-14, 2-6=25
 - Trapezoidal Loads (plf)
 - Vert: 1=-47-to-7=-36, 8=-36-to-2=-47
- 29) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 7-8=-60, 3-4=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-75-to-7=-60, 8=-60-to-2=-75

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

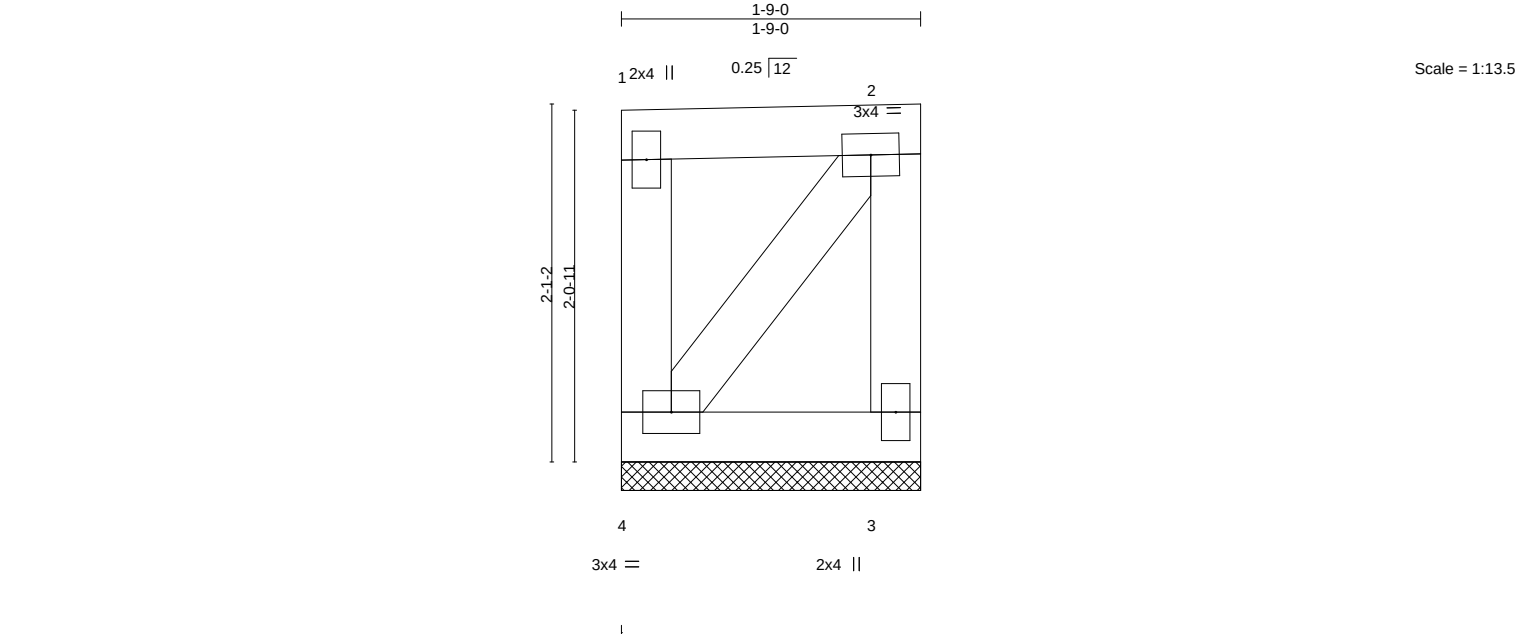
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE01	Blocking Supported	8	1	I50479112
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:21 2022 Page 1
 ID:6EjRszEEA1occ44RuFMRXLy93I1-Mv0840cKr6jr1UuwUxwycoBwsgrTwjeGxv4gtezgdf8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 10 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-9-0, 3=1-9-0
 Max Horz 4=55(LC 13)
 Max Uplift 4=-35(LC 10), 3=-29(LC 11)
 Max Grav 4=73(LC 26), 3=66(LC 25)

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

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4 and 29 lb uplift at joint 3.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



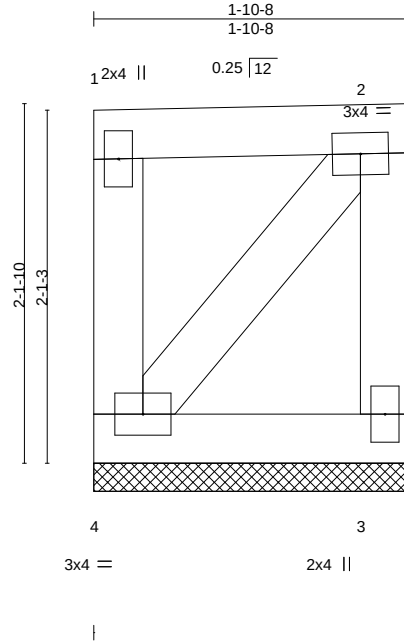
March 1,2022

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE02	Blocking Supported	8	1	I50479113
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:22 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly93l1-q5aWHMdyCPrifeS62eRB9?k5U4BfAuQ9ZqDQ4zgdf7



Scale = 1:13.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 10 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
 Max Horz 4=56(LC 13)
 Max Uplift 4=-34(LC 10), 3=-28(LC 11)
 Max Grav 4=76(LC 26), 3=69(LC 25)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 4 and 28 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1, 2022

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

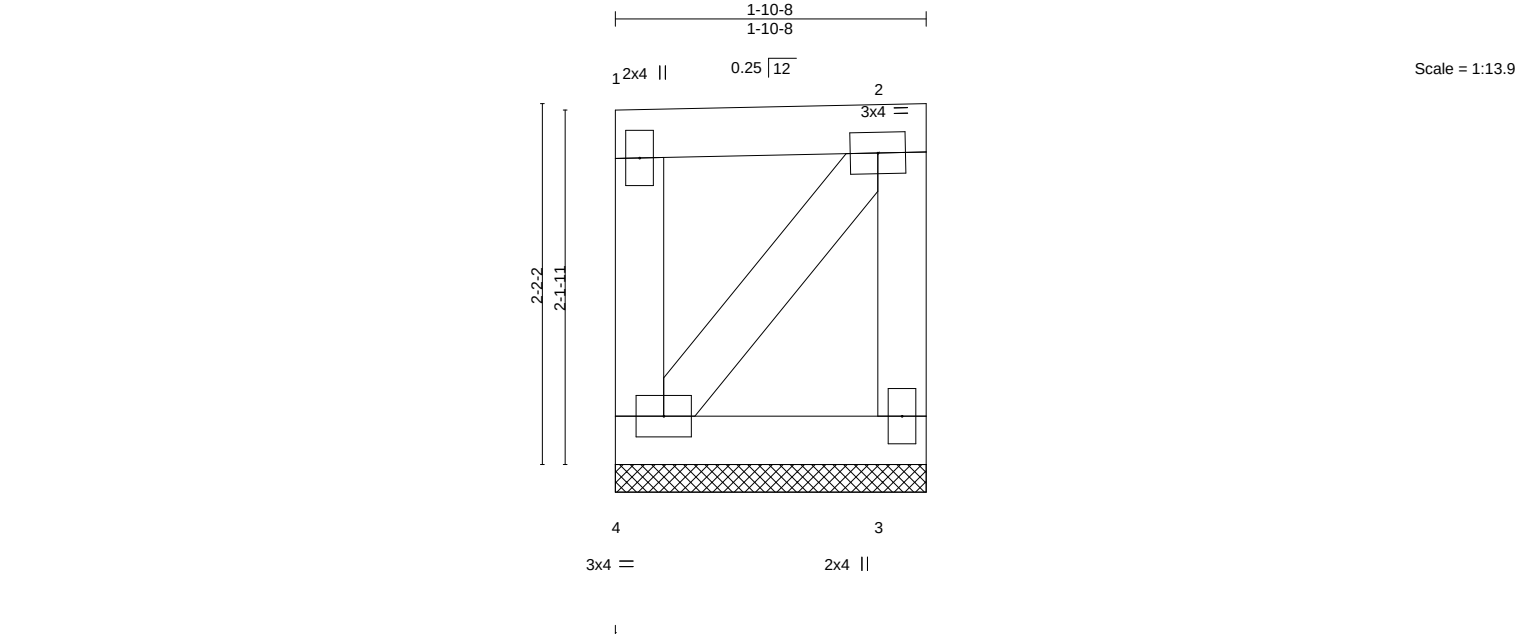
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE03	Blocking Supported	8	1	I50479114

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:22 2022 Page 1
 ID:6EjRszEEA1occ44RuFMRXLy93I1-q5aWHMdyCPrifeS62eRB9?k5U4BffAtQ9ZqDQ4zgdf7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 10 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
 Max Horz 4=57(LC 13)
 Max Uplift 4=-36(LC 10), 3=-29(LC 11)
 Max Grav 4=77(LC 26), 3=70(LC 25)

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

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 4 and 29 lb uplift at joint 3.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



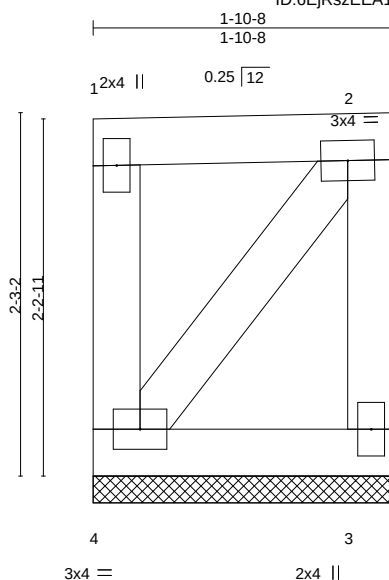
March 1,2022

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE05	Blocking Supported	8	1	I50479116

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:24 2022 Page 1

ID:6EJRszEEA1occ44RuFMRXly93I1-mUiGi2eC816QuycVA3UfEQpRzt774LjdJKUzzgdf5



Scale = 1:14.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 10 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
 Max Horz 4=60(LC 13)
 Max Uplift 4=-39(LC 10), 3=-32(LC 11)
 Max Grav 4=80(LC 26), 3=72(LC 25)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 4 and 32 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



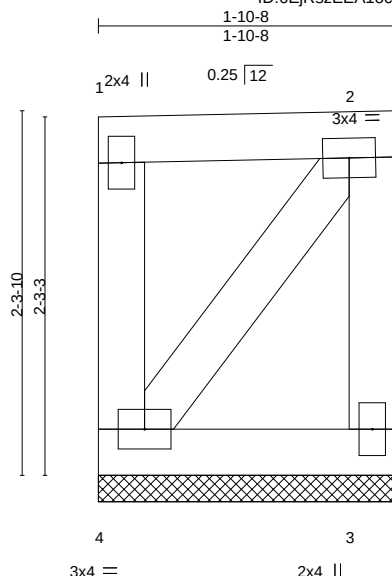
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE06	Blocking Supported	8	1	I50479117

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:25 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-FgGfvOfqvKEGW6Bhjn?umeMcjHcMsXasrX2t0Pzgdf4



Scale = 1:14.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=61(LC 13)
Max Uplift 4=-40(LC 10), 3=-34(LC 11)
Max Grav 4=81(LC 26), 3=73(LC 25)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 4 and 34 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



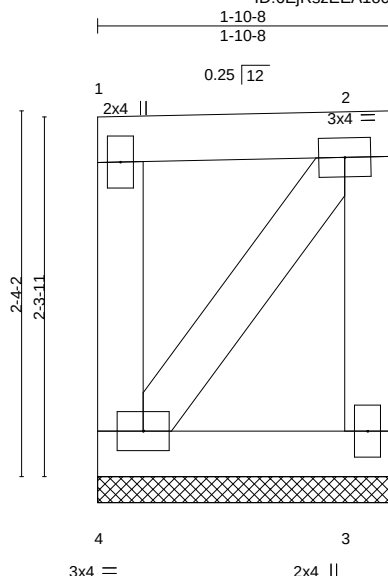
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE07	Blocking Supported	8	1	I50479118

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:25 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-FgGfvOfqvKEGW6Bhjn?umeMciHCMsXZsrX2t0Pzgdf4



Scale = 1:14.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=62(LC 13)
Max Uplift 4=42(LC 10), 3=35(LC 11)
Max Grav 4=82(LC 26), 3=74(LC 25)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4 and 35 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



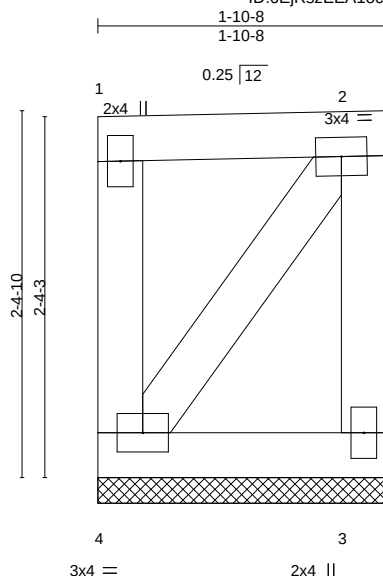
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE08	Blocking Supported	8	1	I50479119

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:26 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly9311-jsq17kgSgeM78FmuHUW7JrvnQhYbb_o?4BoRZrzd3



Scale = 1:15.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=63(LC 11)
Max Uplift 4=-44(LC 10), 3=-37(LC 11)
Max Grav 4=83(LC 26), 3=76(LC 25)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 4 and 37 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

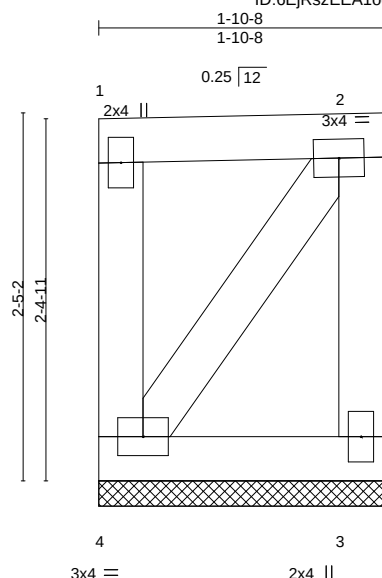
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE09	Blocking Supported	8	1	I50479120

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:27 2022 Page 1

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Scale = 1:15.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=65(LC 13)
Max Uplift 4=-45(LC 10), 3=-39(LC 11)
Max Grav 4=84(LC 26), 3=77(LC 25)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4 and 39 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1,2022

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



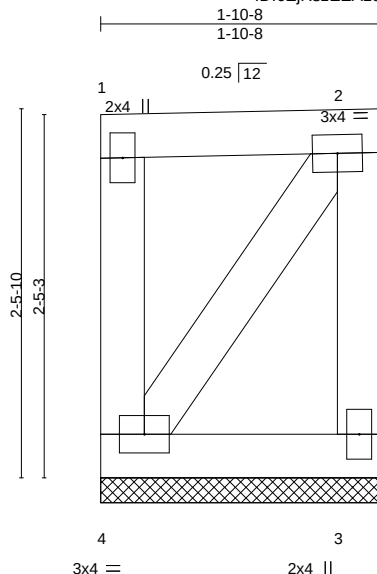
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE10	Blocking Supported	8	1	I50479121

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:27 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly93l1-B3NPK4g5RyU_IPL4rB1Ms3Rx65uqKR09JqX_5lzdgf2



Scale = 1:15.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=66(LC 13)
Max Uplift 4=-47(LC 10), 3=-41(LC 11)
Max Grav 4=86(LC 26), 3=78(LC 25)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 4 and 41 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



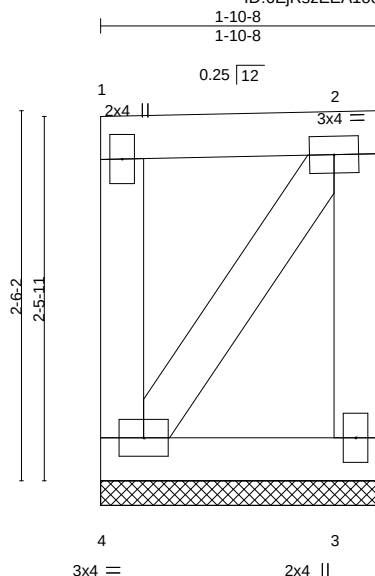
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE11	Blocking Supported	8	1	I50479122

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:28 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly9311-fFxnYQhJCfCrNZwGPvYbOG_6qVE33uFIYUHYdkzgd1



Scale = 1:15.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
 Max Horz 4=67(LC 11)
 Max Uplift 4=49(LC 10), 3=42(LC 11)
 Max Grav 4=87(LC 26), 3=79(LC 25)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 4 and 42 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

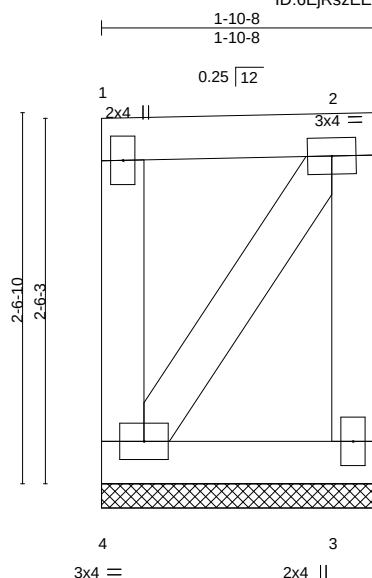


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE12	Blocking Supported	8	1	I50479123

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:29 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy9311-7RV9lliLzZki?jVTyc3qxUXHXualoKUSm8059Azgdf0



Scale: 3/4"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=69(LC 13)
Max Uplift 4=-50(LC 10), 3=-44(LC 11)
Max Grav 4=88(LC 26), 3=81(LC 25)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 4 and 44 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



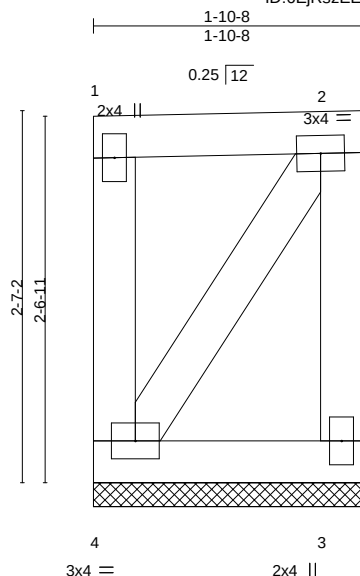
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE13	Blocking Supported	8	1	I50479124

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:29 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy9311-7RV9lliLzZki?jvTyc3qxUXHOualoKTSm8059Azgdf0



Scale: 3/4"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
 Max Horz 4=70(LC 11)
 Max Uplift 4=-52(LC 10), 3=-46(LC 11)
 Max Grav 4=90(LC 26), 3=82(LC 25)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 4 and 46 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



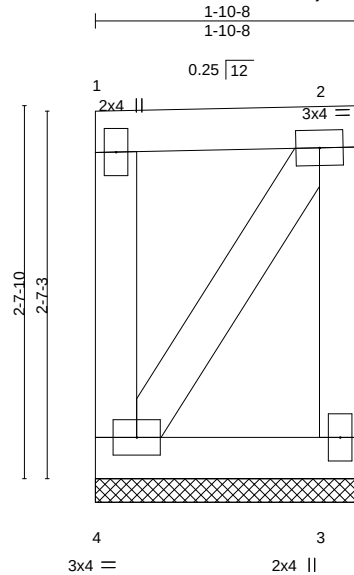
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE14	Blocking Supported	8	1	I50479125
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:30 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXly93l1-bd3Yy5jzKtsZct4fWka3Th3S5lwXXnib?omeiczgdf?



Scale = 1:16.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
 Max Horz 4=71(LC 13)
 Max Uplift 4=-54(LC 10), 3=-48(LC 11)
 Max Grav 4=91(LC 26), 3=83(LC 25)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 4 and 48 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1, 2022

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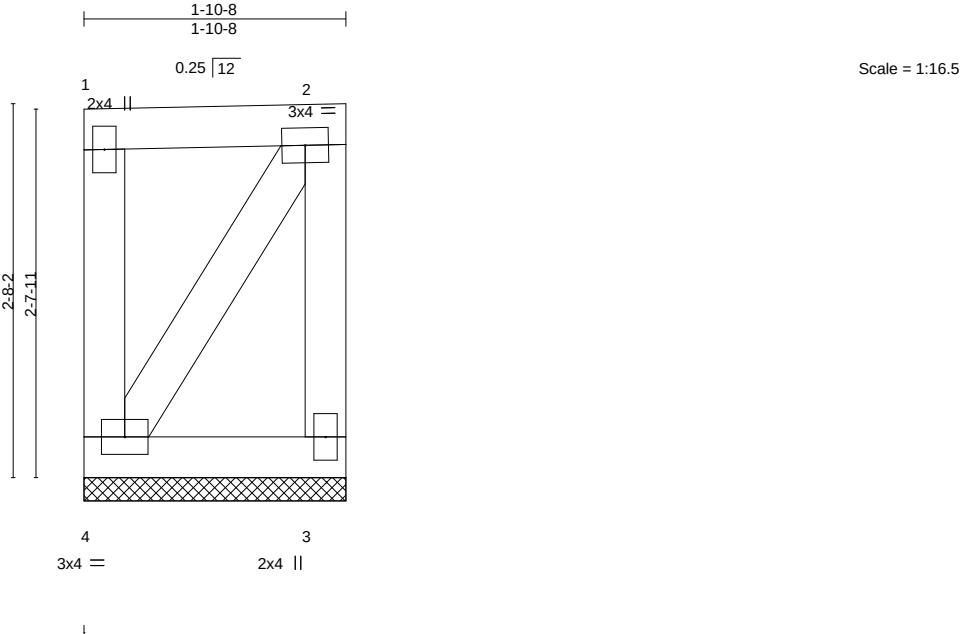
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE15	Blocking Supported	8	1	I50479126

Mill Creek Truss, LLC, Halstead, KS - 67056, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:31 2022 Page 1
 ID:6EjRszEEA1occ44RuFMRXly93I1-3qdwARkbUA_QE1er416I0vcdofmGExIESVCE3zgdf_



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
 Max Horz 4=72(LC 13)
 Max Uplift 4=-56(LC 10), 3=-50(LC 11)
 Max Grav 4=93(LC 26), 3=85(LC 25)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 4 and 50 lb uplift at joint 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



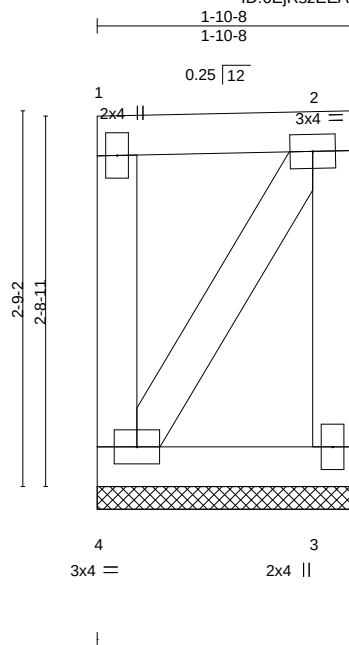
March 1,2022

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE16	Blocking Supported	6	1	I50479127

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:31 2022 Page 1

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Scale = 1:16.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=75(LC 11)
Max Uplift 4=60(LC 10), 3=53(LC 11)
Max Grav 4=95(LC 26), 3=88(LC 25)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 4 and 53 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



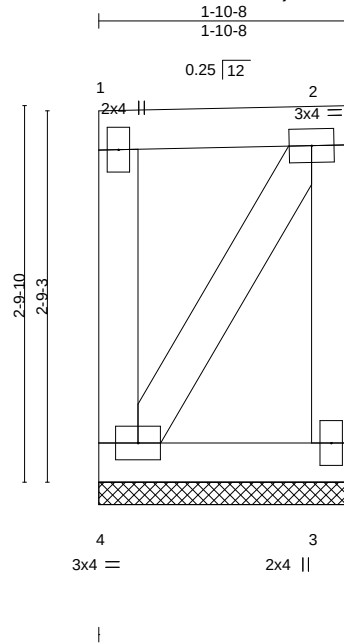
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE17	Blocking Supported	6	1	I50479128
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:32 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-X0BINnkDFU6HsAD1eldXZ69oQ6b??h7uS6FIIVzgdez



Scale = 1:17.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
 Max Horz 4=76(LC 13)
 Max Uplift 4=62(LC 10), 3=55(LC 11)
 Max Grav 4=97(LC 26), 3=89(LC 25)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 4 and 55 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

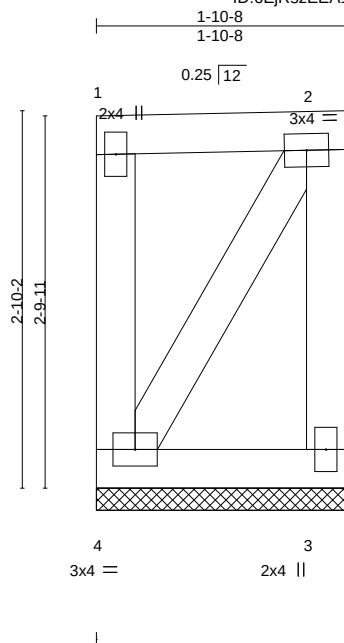
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE18	Blocking Supported	6	1	I50479129

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:33 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93l1-0C1gb7Is0oE8TKoEBS8m5Khy8WxEk8L1hm_Jlxzgdey



Scale = 1:17.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=77(LC 11)
Max Uplift 4=-64(LC 10), 3=-58(LC 11)
Max Grav 4=98(LC 26), 3=91(LC 25)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 4 and 58 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



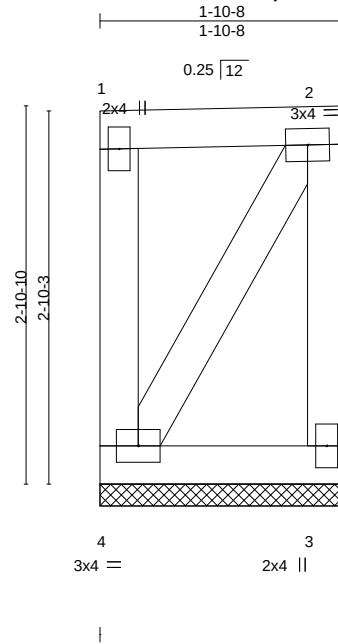
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE19	Blocking Supported	2	1	I50479130

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:33 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-0C1gb7Is0oE8TKoEBS8m5Khy5WxEk8K1hm_Jlxzgdey



Scale = 1:17.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
 Max Horz 4=79(LC 13)
 Max Uplift 4=66(LC 10), 3=60(LC 11)
 Max Grav 4=100(LC 26), 3=92(LC 25)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 4 and 60 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

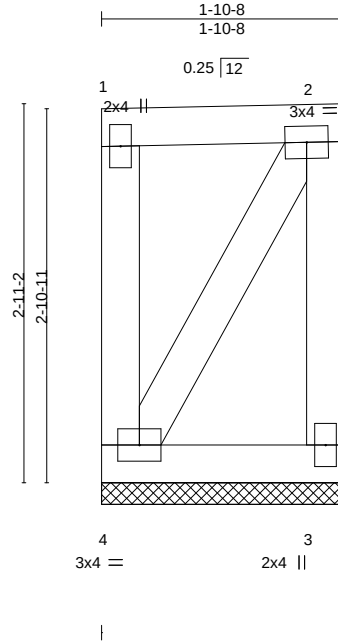
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE20	Blocking Supported	2	1	I50479131
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:34 2022 Page 1

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Scale = 1:17.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=80(LC 11)
Max Uplift 4=-68(LC 10), 3=-62(LC 11)
Max Grav 4=102(LC 26), 3=94(LC 25)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-198/252

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 4 and 62 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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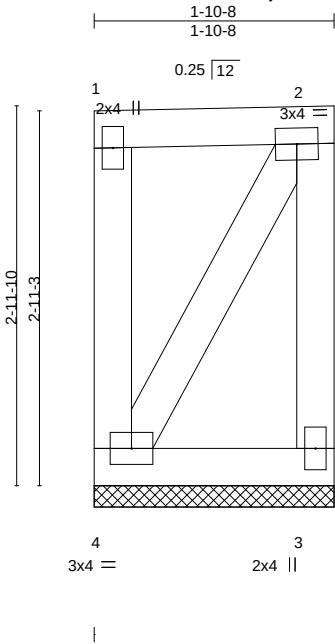
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE21	Blocking Supported	2	1	I50479132
Job Reference (optional)					

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:35 2022 Page 1
ID:6EjRszEEA1occ44RuFMRXLy93l1-ybsR0pn6YPUsjeycJtAEAlmIVJdhC2oK94TPMqzgdew



Scale = 1:18.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 13 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=81(LC 11)
Max Uplift 4=-70(LC 10), 3=-64(LC 11)
Max Grav 4=103(LC 26), 3=95(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-204/258

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 4 and 64 lb uplift at joint 3.
 - 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

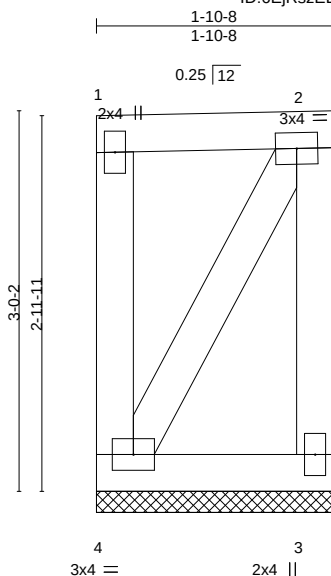
Building 3

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE22	Blocking Supported	2	1	I50479133

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:36 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-QnQpD9nkJcjKoXptahTjyJTBjzwxV1UNkDzuGzgdev



Scale = 1:18.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=82(LC 13)
Max Uplift 4=-72(LC 10), 3=-66(LC 11)
Max Grav 4=105(LC 26), 3=97(LC 25)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-209/264

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 4 and 66 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



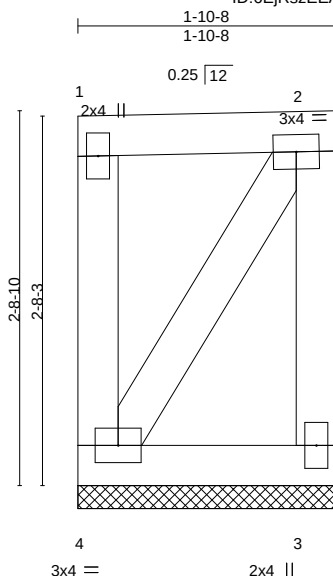
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Brinkmann Constructors
J220198-G03R	TGE23	Blocking Supported	2	1	I50479134

Mill Creek Truss, LLC, Halstead, KS - 67056,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 28 10:56:36 2022 Page 1

ID:6EjRszEEA1occ44RuFMRXLy93I1-QnQpD9nkJjcKoXptahTjyJTVjzwxV9UNkDzuGzgdev



Scale = 1:16.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 13.9/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IBC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=1-10-8, 3=1-10-8
Max Horz 4=74(LC 11)
Max Uplift 4=-58(LC 10), 3=-52(LC 11)
Max Grav 4=94(LC 26), 3=86(LC 25)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 4 and 52 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



March 1,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

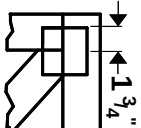
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



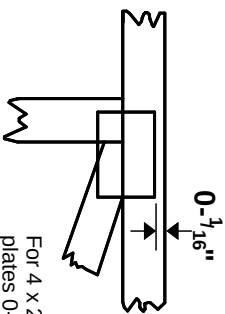
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless X, Y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.

—
—
This symbol indicates the required direction of slots in connector plates.

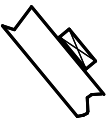
*** Plate location details available in MITek 20120 software or upon request.**

PLATE SIZE

4 X 4

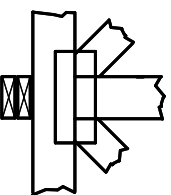
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



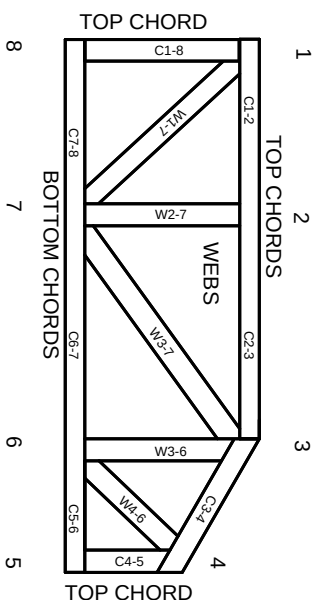
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths
(Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Group 4 Floor Layout

Total Truss Quantity = 180.

Total Plan Area with OHs = 4292 sq.ft

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL CONFORMANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSURED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

☐ APPROVED

☐ FURNISH AS CORRECTED

☐ REJECTED, REVISE & RESUBMIT

☐ RETURNED NOT REVIEWED

☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.

STRUCTURAL ENGINEERS

DATE 03/27/2022 BY CB

REVIEWED ☒ DATE RECEIVED: 3/29/2022

REVIEWED AS NOTED ☐ DATE REVIEWED: 3/29/2022

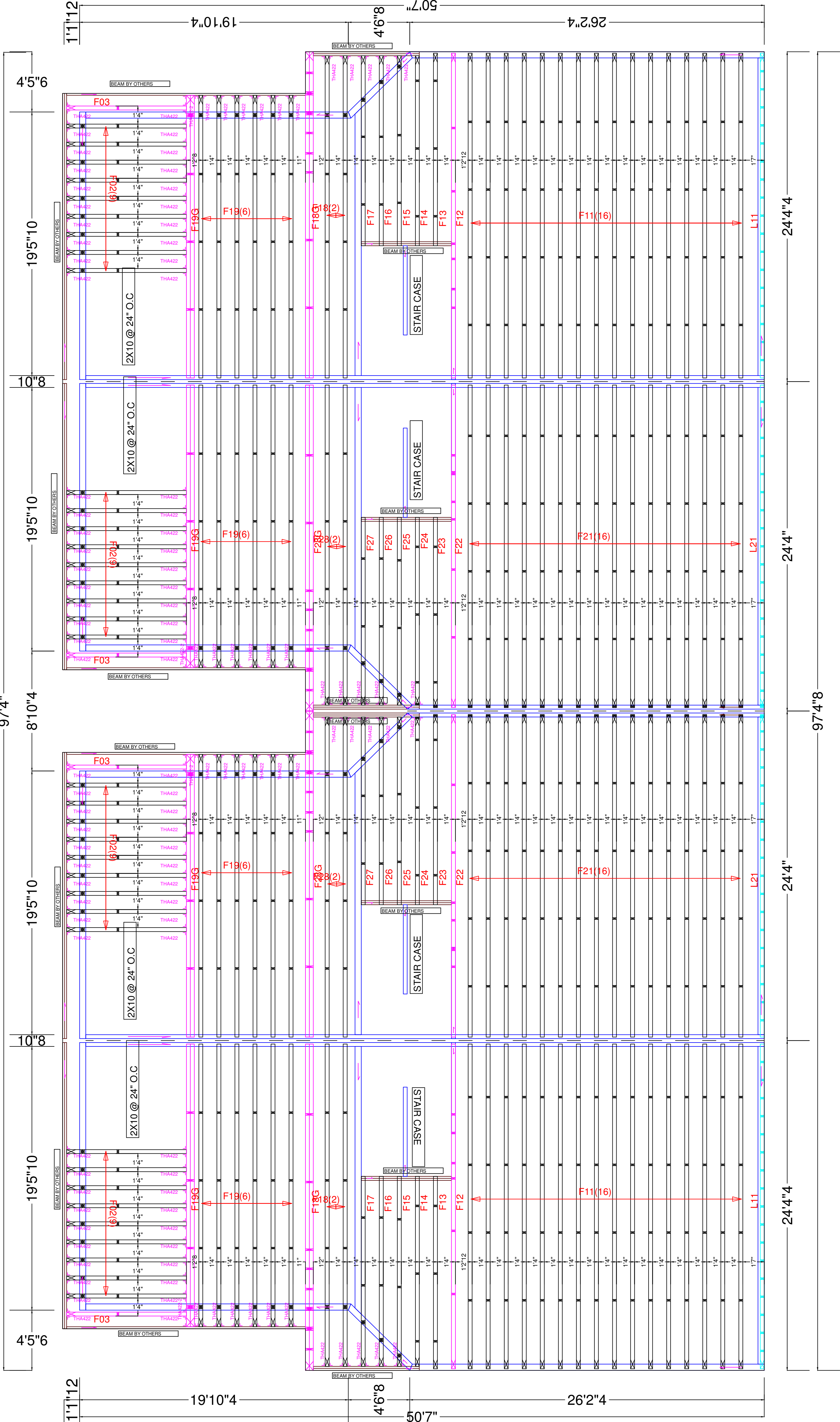
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

DO NOT Erect Backwards/UpSide Down or Cut, Alter, Installed Trusses



NOTE: Yellow ID Tag Location Indicates Left/Right Orientation of Truss



3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

Job Name:

McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220683

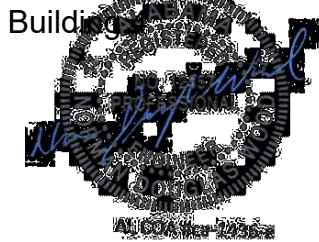
Date: 3/17/2022

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address:

TBA
Lee's Summit
MO



Alpine, an ITW company
 514 Earth City Expressway
 Suite 242
 Earth City, MO 63045
 Phone: (800)326-4102 (314)344-9121
 alpineitw.com

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220683
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA	
Address: TBA, Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00 JRef #: 1XdW93160006
Wind Standard: ASCE716 Wind Speed (mph): 0	Design Loading (psf): 75.00
Building Type:	

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	075.22.1440.27690	F02
3	075.22.1440.28833	F11
5	075.22.1440.28465	F13
7	075.22.1440.28336	F15
9	075.22.1440.28933	F17
11	075.22.1440.28734	F18G
13	075.22.1440.35491	F19G
15	075.22.1440.28972	F22
17	075.22.1440.27794	F24
19	075.22.1440.27861	F26
21	075.22.1440.27839	F28
23	075.22.1440.28531	L11
25	CNSY42PL0118	
27	LSCSYX2A1014	

Item	Drawing Number	Truss
2	075.22.1440.28506	F03
4	075.22.1440.35397	F12
6	075.22.1440.28082	F14
8	075.22.1440.28735	F16
10	075.22.1440.27835	F18
12	075.22.1440.35456	F19
14	075.22.1440.27683	F21
16	075.22.1440.28195	F23
18	075.22.1440.28576	F25
20	075.22.1440.27819	F27
22	075.22.1440.27824	F28G
24	075.22.1440.28683	L21
26	DEFLCAMB1014	
28	STRBRI1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

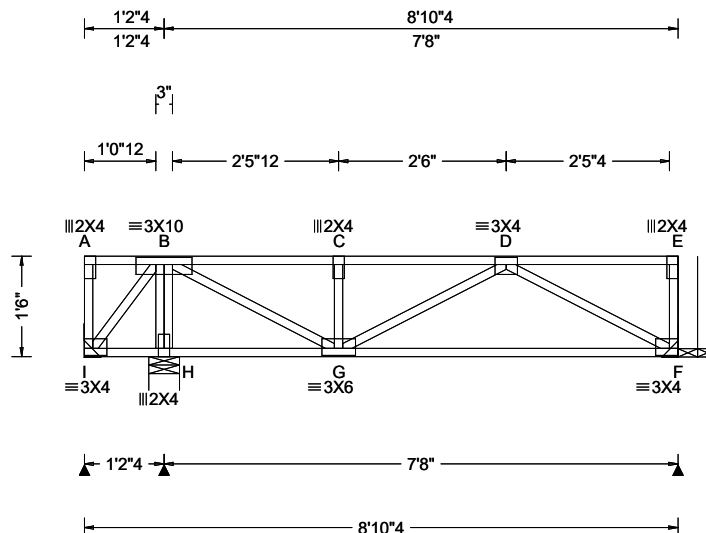
Building 4

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 4

SEQN: 96319 / FROM:	SY42 Qty: 36	Ply: 1 Qty: 36	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F02	Cust: R 9316 JRef: 1XdW93160006 T6 DrwNo: 075.22.1440.27690 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.018 C 999 480 VERT(CL): 0.034 C 999 360 HORZ(LL): 0.002 F - - HORZ(TL): 0.004 F - - Creep Factor: 2.0 Max TC CSI: 0.299 Max BC CSI: 0.301 Max Web CSI: 0.162 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 28 /-43 /- /- /- /- H 525 /- /- /- /- /- F 372 /- /- /- /- /- I Brg Wid = - Min Req = - H Brg Wid = 5.5 Min Req = 1.5 (Truss) F Brg Wid = - Min Req = - Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

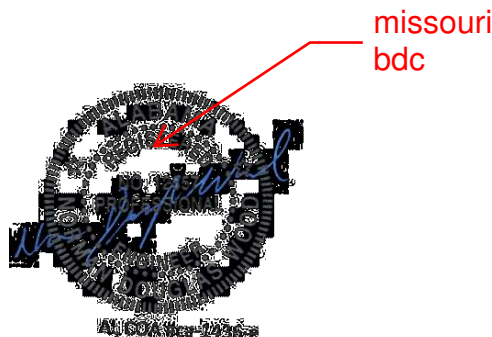
Chords Tens.Comp.

G - F 473 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

B - H 0 -499 D - F 0 -537
B - G 576 0



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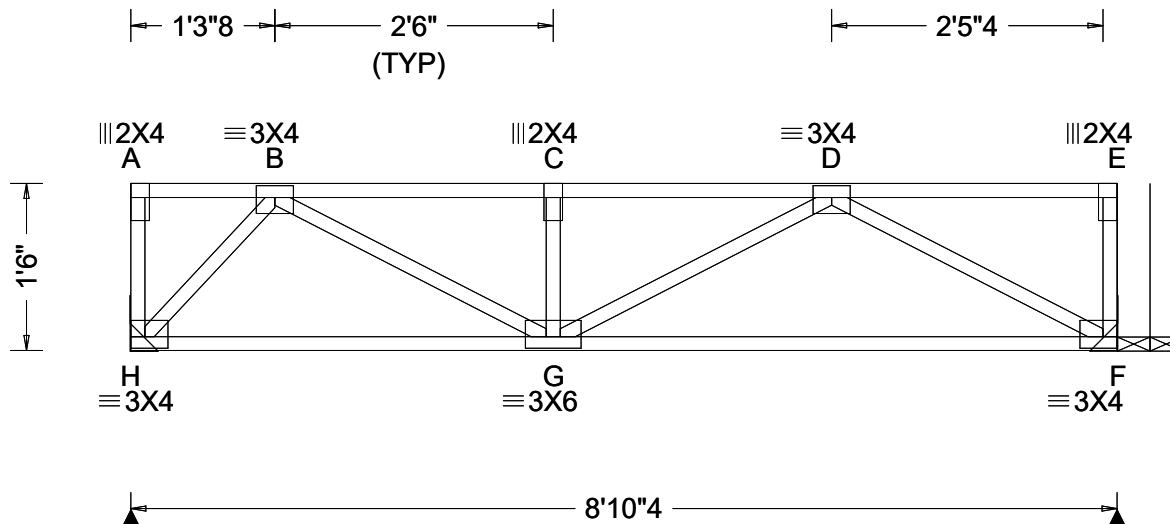
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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Building 4

SEQN: 96321 / FROM:	SY42 Ply: 1 Qty: 4	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F03	Cust: R 9316 JRef: 1XdW93160006 T7 / DrwNo: 075.22.1440.28506 / NDW 03/16/2022
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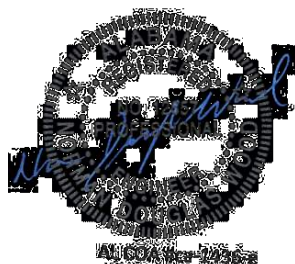
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCCL: 25.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCCL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.024 C 999 480 VERT(CL): 0.046 C 999 360 HORZ(LL): 0.004 B - - HORZ(TL): 0.008 B - - Creep Factor: 2.0 Max TC CSI: 0.298 Max BC CSI: 0.324 Max Web CSI: 0.141 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL H 443 -/- /- /- /- /- F 443 -/- /- /- /- /- H Brg Wid = - Min Req = - F Brg Wid = - Min Req = - Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -747 C - D 0 -747 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. G - F 606 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. H - B 0 -546 D - F 0 -687 B - G 426 0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.



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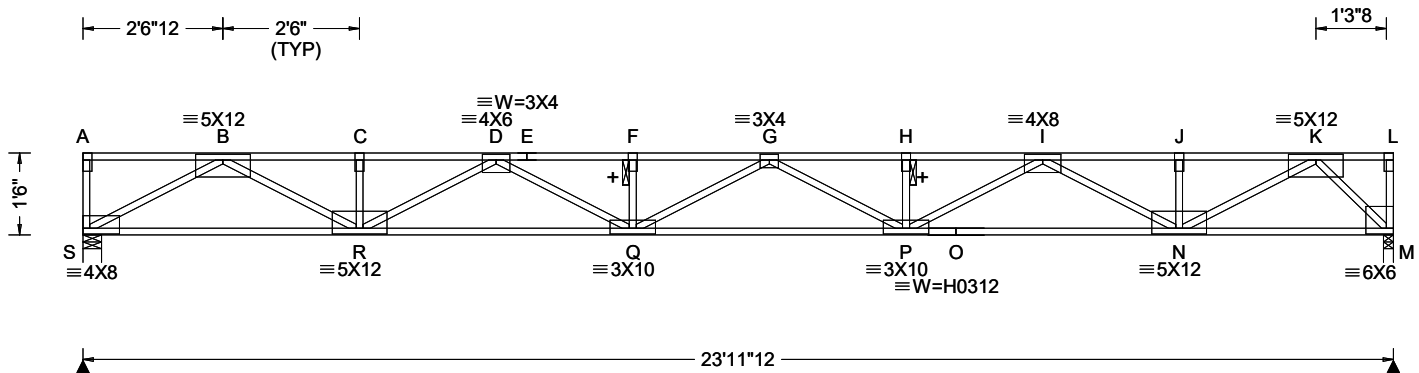
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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Building 4

SEQN: 96323 / FROM:	SY42 Qty: 32	Ply: 1 Qty: 32	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F11	Cust: R 9316 JRef: 1XdW93160006 T28 / DrwNo: 075.22.1440.28833 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.414 G 695 480 VERT(CL): 0.775 G 371 360 HORZ(LL): 0.057 M - - HORZ(TL): 0.107 M - - Creep Factor: 2.0 Max TC CSI: 0.398 Max BC CSI: 0.672 Max Web CSI: 0.551 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1199 /- /- /- /- /- M 1199 /- /- /- /- /- S Brg Wid = 4.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3522 G - H 0 - 4917 C - D 0 - 3522 H - I 0 - 4917 D - E 0 - 5123 I - J 0 - 2895 E - F 0 - 5123 J - K 0 - 2895 F - G 0 - 5123

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

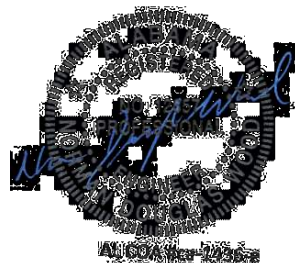
Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
S - R 2010 0 P - O 4106 0
R - Q 4523 0 O - N 4106 0
Q - P 5219 0 N - M 1183 0

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
S - B 0 - 2281 P - I 925 0
B - R 1725 0 I - N 0 - 1382
R - D 0 - 1143 N - K 1954 0
D - Q 684 0 K - M 0 - 1648



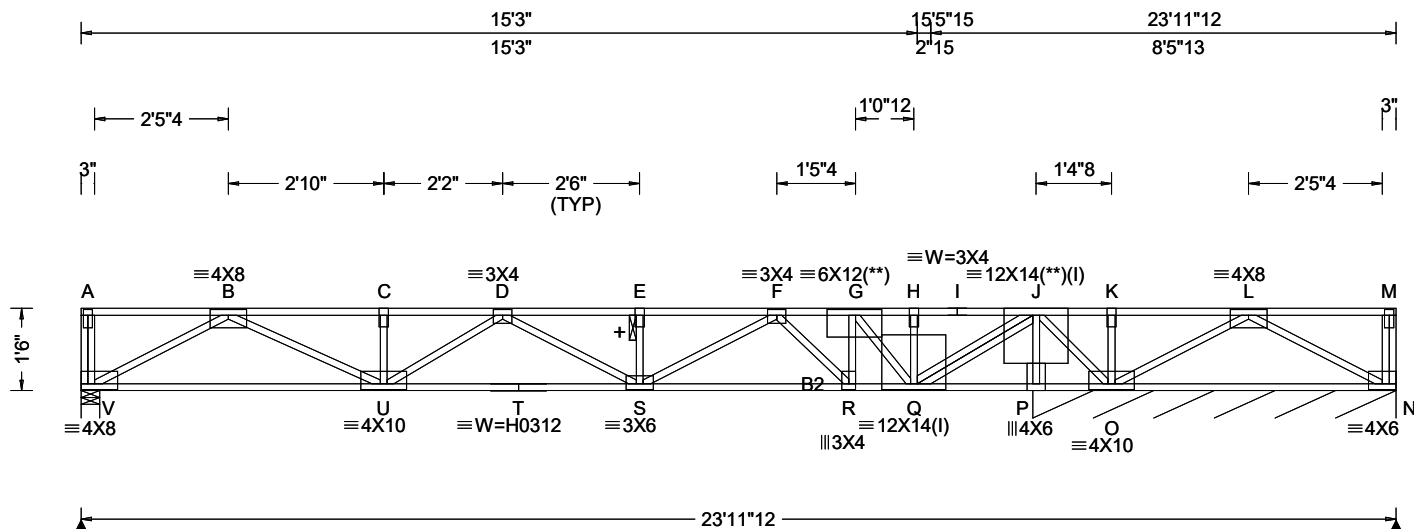
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Building 4

SEQN: 96379 / FROM:	SY42 Qty: 2	Ply: 1	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F12	Cust: R9316 JRef: 1XdW93160006 T1 / DrwNo: 075.22.1440.35397 CAT / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.201 E 999 480 VERT(CL): 0.377 E 545 360 HORZ(LL): 0.029 B - - HORZ(TL): 0.054 B - - Creep Factor: 2.0 Max TC CSI: 0.946 Max BC CSI: 0.960 Max Web CSI: 0.568 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL V 961 /- /- /- /- /- N* 443 /- /- /- /- /- N /-304 V Brg Wid = 4.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2615 G - H 0 -818 C - D 0 -2615 H - I 0 -818 D - E 0 -3202 I - J 0 -818 E - F 0 -3202 J - K 2031 0 F - G 0 -2426 K - L 2031 0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

——(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes

All plates are 2X4 except as noted.

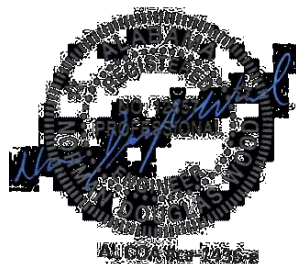
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.



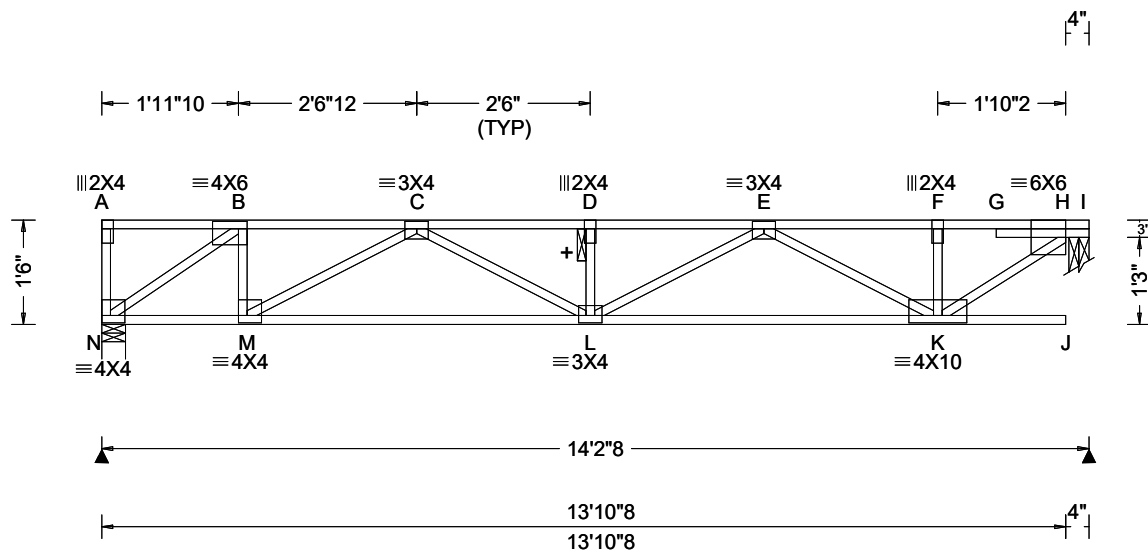
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Building 4

SEQN: 96329 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F13	Cust: R 9316 JRef: 1XdW93160006 T23 / DrwNo: 075.22.1440.28465 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.096 D 999 480 VERT(CL): 0.179 D 942 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.620 Max BC CSI: 0.537 Max Web CSI: 0.329 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 702 /- /- /- /- /- H 714 /- /- /- /- /- N Brg Wid = 4.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -943 E - F 0 -943 C - D 0 -1836 F - H 0 -942 D - E 0 -1836

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

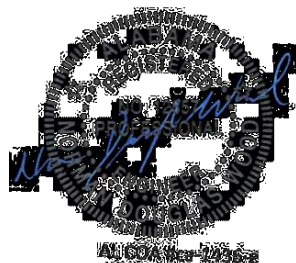
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	905	L - K	1574
M - L	1582		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 - 1104	E - K	0 - 721
B - M	416	K - H	1166
M - C	0 - 734		0



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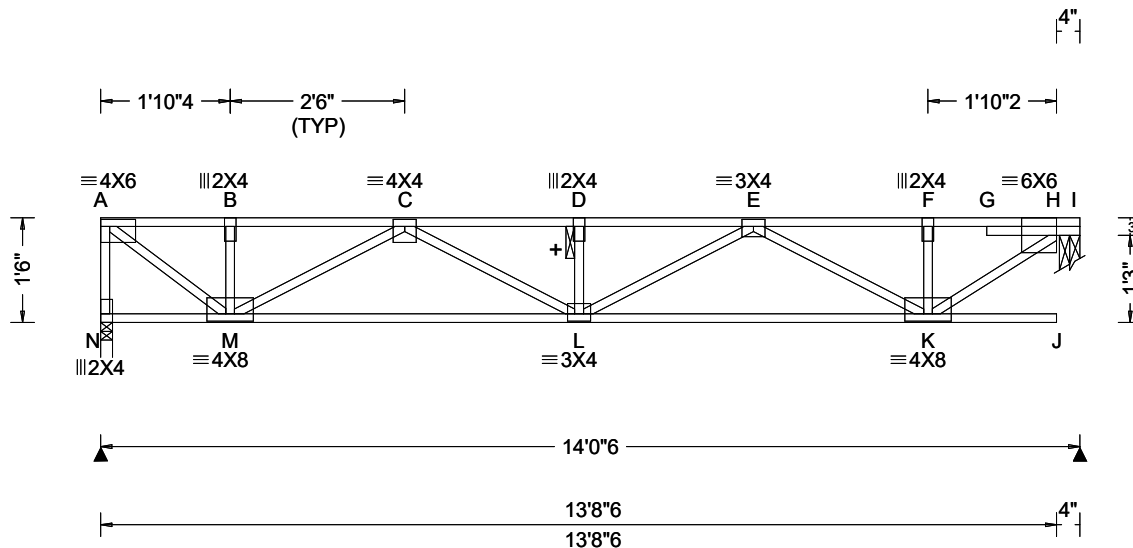
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Building 4

SEQN: 96331 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F14	Cust: R 9316 JRef: 1XdW93160006 T15 / DrwNo: 075.22.1440.28082 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.093 D 999 480 VERT(CL): 0.174 D 955 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.612 Max BC CSI: 0.524 Max Web CSI: 0.324 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 693 -/- /- /- /- /- H 706 -/- /- /- /- /- N Brg Wid = 2.0 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -849 D - E 0 -1791 B - C 0 -849 E - F 0 -929 C - D 0 -1791 F - H 0 -929

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1520 0	L - K	1546 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -690	E - K	0 -703
A - M	1057 0	K - H	1150 0
M - C	0 -766		



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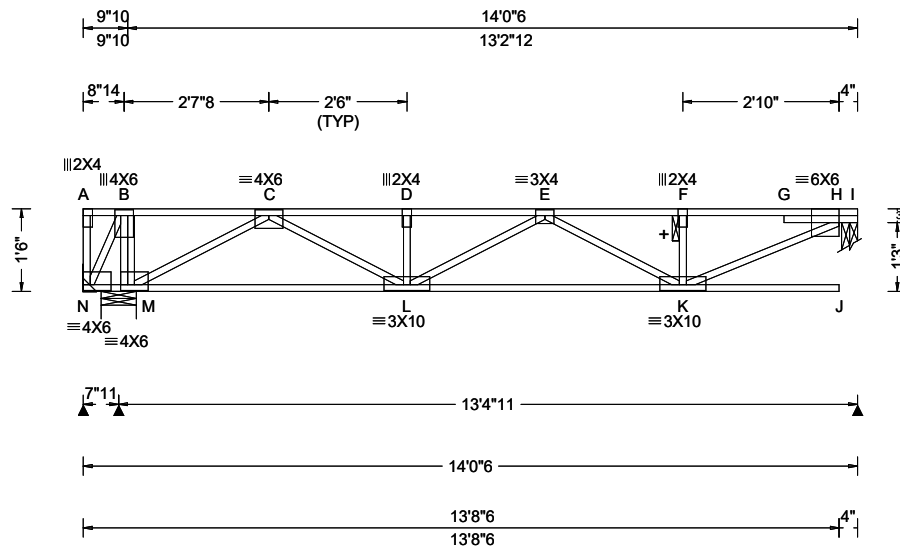
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Building 4

SEQN: 96333 / FROM:	SY42 Qty: 2	Ply: 1	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F15	Cust: R 9316 JRef: 1XdW93160006 T26 / DrwNo: 075.22.1440.28336 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.200 J 780 480 VERT(CL): 0.320 J 487 360 HORZ(LL): 0.011 C - - HORZ(TL): 0.020 C - - Creep Factor: 2.0 Max TC CSI: 0.961 Max BC CSI: 0.588 Max Web CSI: 0.339 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-708 /- /- /- /- N 1480 /- /- /- /- /- H 618 /- /- /- /- /- N Brg Wid = - Min Req = - N Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.

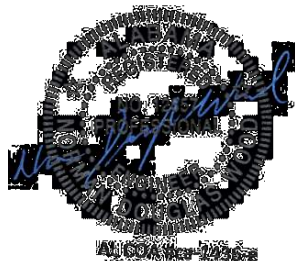
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	600 0	L - K	1318 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	685 0	C - L	693 0
B - M	0 -840	K - H	1201 0
M - C	0 -1141		



03/16/2022

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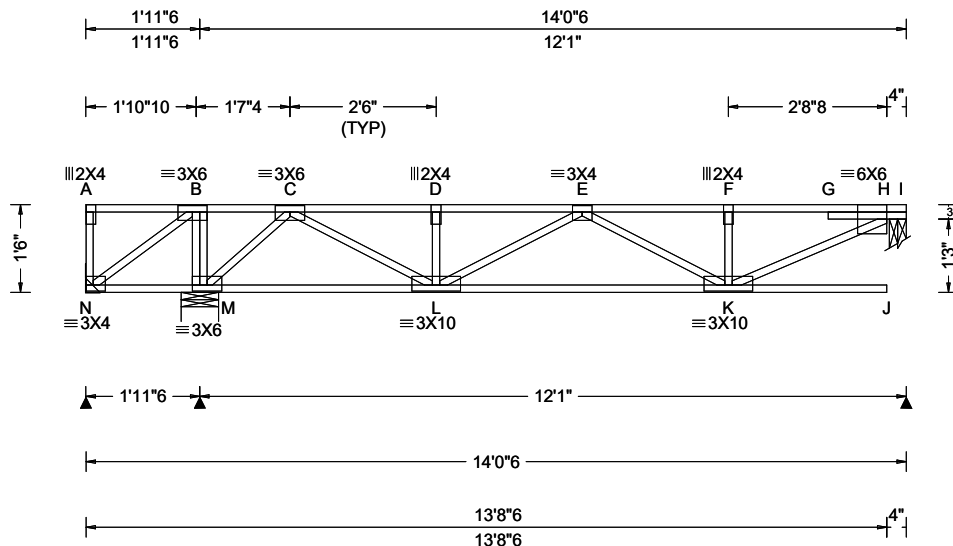
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Building 4

SEQN: 96335 / FROM:	SY42 Qty: 2	Ply: 1	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F16	Cust: R9316 JRef: 1XdW93160006 T33 / DrwNo: 075.22.1440.28735 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.159 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.283 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - / -323 / - / - / - / - M 1131 / - / - / - / - / - I 547 / - / - / - / - / - N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.

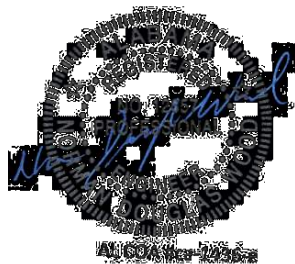
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	0 -469	L - K	1034 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	580 0	C - L	816 0
B - M	0 -512	K - H	1004 0
M - C	0 -842		



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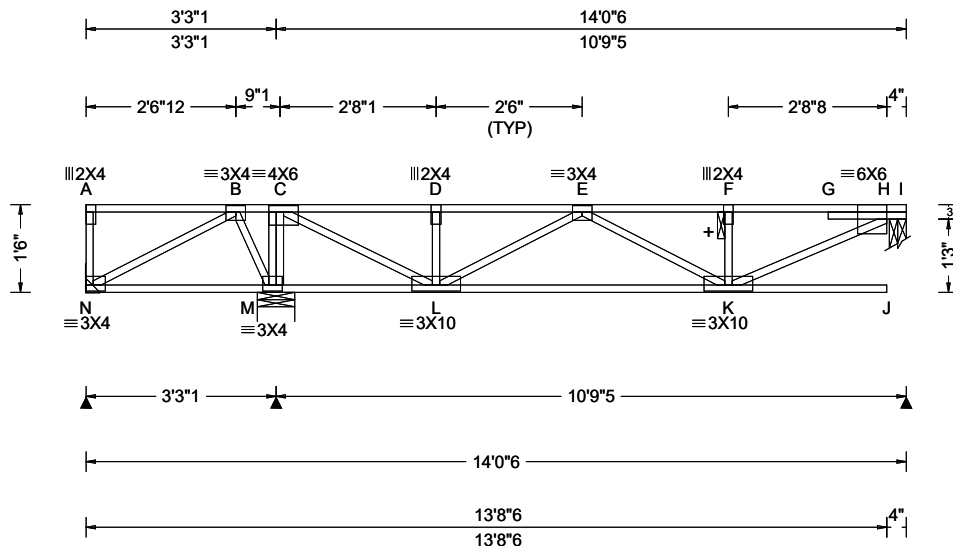
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Building 4

SEQN: 96337 / FROM:	SY42 Ply: 1 Qty: 2	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F17	Cust: R9316 JRef: 1XdW93160006 T20 / DrwNo: 075.22.1440.28933 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 870 480 VERT(CL): 0.233 J 550 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.749 Max BC CSI: 0.437 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh N 57 /-122 /- M 959 /- /- I 491 /- /- Non-Gravity / Rw / U / RL N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 423 0 E - F 0 -784 C - D 0 -500 F - H 0 -785 D - E 0 -500

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

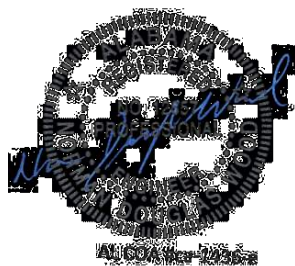
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Truss must be installed as shown with top chord up.



03/16/2022

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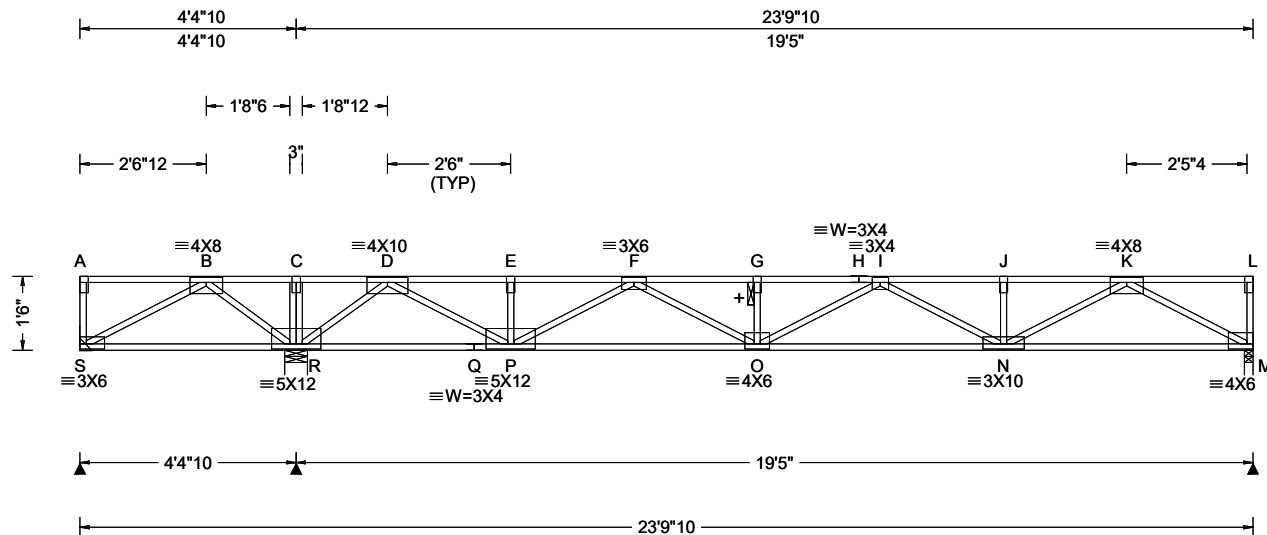
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Building 4

SEQN: 96339 / FROM:	SY42 Qty: 4	Ply: 1 Qty: 4	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F18	Cust: R 9316 JRef: 1XdW93160006 T16 / DrwNo: 075.22.1440.27835 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.197 G 999 480 VERT(CL): 0.371 G 628 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.796 Max Web CSI: 0.466 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-458 /- /- /- /- R 1886 /- /- /- /- /- M 844 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Negative reaction(s) of -458# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	0 -955	P - O	1987 0
R - Q	0 -427	O - N	2580 0
Q - P	0 -427	N - M	1352 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - B	1084 0	F - O	631 0
B - R	0 -1117	I - N	0 -411
R - D	0 -1648	N - K	991 0
D - P	1653 0	K - M	0 -1535
P - F	0 -1085		



03/16/2022

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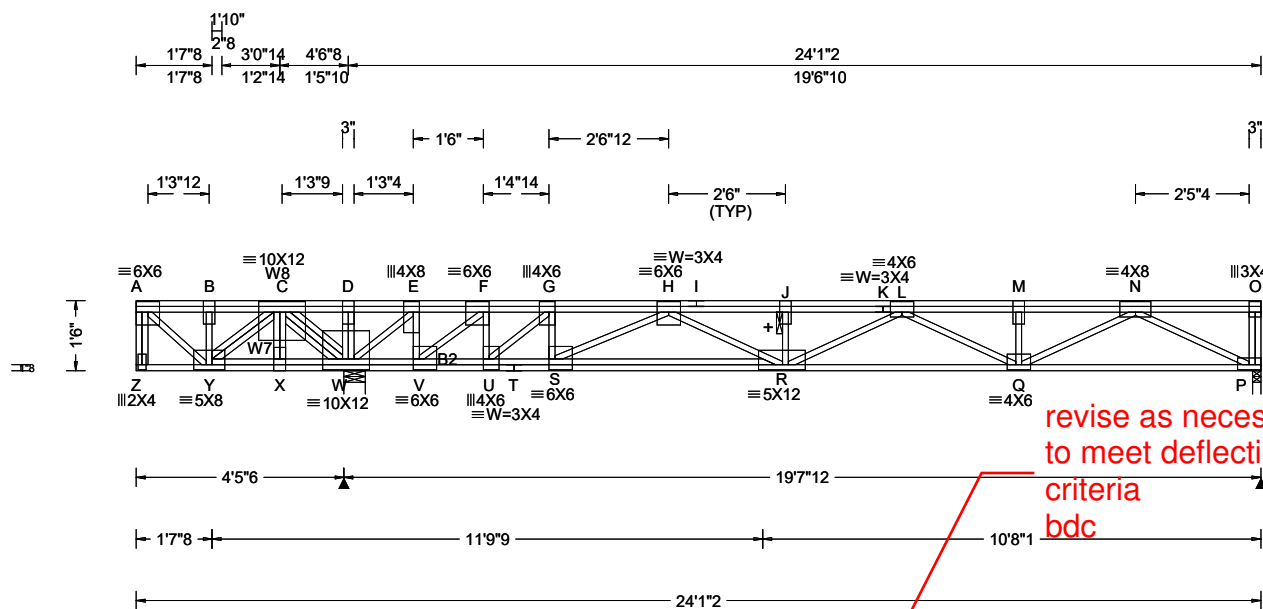
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Building 4

SEQN: 96341 / FROM:	SY42 Qty: 2	Ply: 2 Qty: 2	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F18G	Cust: R9316 JRef: 1XdW93160006 T17 / DrwNo: 075.22.1440.28734 / NDW 03/16/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.124 Z 435 480 VERT(CL): 0.263 Z 204 360 HORZ(LL): -0.027 A - - HORZ(TL): 0.058 A - - Creep Factor: 2.0 Max TC CSI: 0.885 Max BC CSI: 0.247 Max Web CSI: 0.249 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL W 8317 -/- /- /- /- /- P 962 -/-165 /- /- /- /- W Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings W & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 420 0 H - I 1554 -1705 B - C 420 0 I - J 1554 -1705 C - D 4753 0 J - K 1551 -1711 D - E 4749 0 K - L 1551 -1711 E - F 4209 -367 L - M 534 -1347 F - G 3615 -827 M - N 534 -1347 G - H 3087 -1193

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7, W8 4x2 DF-L 2400f-2.0E;

Special Loads

---(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



03/16/2022

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Y - X	0 - 1228	T - S	1169 - 3130
X - W	0 - 1219	S - R	1563 - 2265
W - V	329 - 4254	R - Q	1631 - 993
V - U	793 - 3663	Q - P	784 - 222
U - T	1169 - 3130		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - Y	0 - 548	G - S	539 0
Y - C	1053 0	S - H	0 - 1139
C - W	0 - 4787	H - R	869 0
W - E	0 - 999	R - L	89 - 626
E - V	636 0	L - Q	518 - 321
V - F	0 - 1035	Q - N	636 - 353
F - U	652 0	N - P	250 - 860
U - G	0 - 919		

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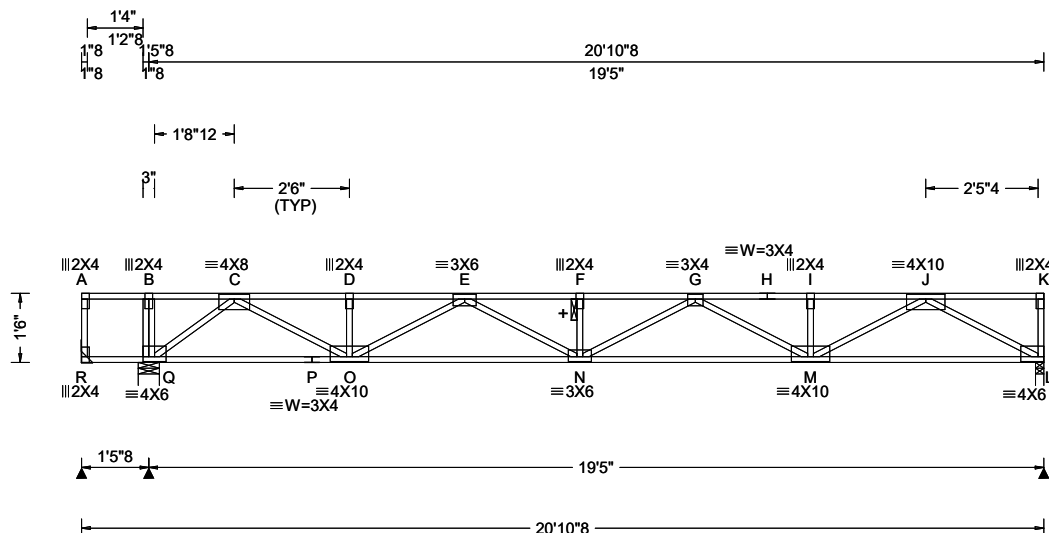
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Earth City, Missouri 63045

Building 4

SEQN: 9774 / FROM:	SY42 Qty: 24	Ply: 1 Qty: 24	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F19	Cust: R 9316 JRef: 1XdW93160006 T34 / DrwNo: 075.22.1440.35456 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.246 F 943 480 VERT(CL): 0.462 F 502 360 HORZ(LL): 0.038 L - - HORZ(TL): 0.072 L - - Creep Factor: 2.0 Max TC CSI: 0.485 Max BC CSI: 0.960 Max Web CSI: 0.397 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 27 /-42 /- /- /- /- Q 1134 /- /- /- /- /- L 962 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Q - P	1089 0	N - M	3224 0
P - O	1089 0	M - L	1570 0
O - N	3055 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q - C	0 - 1383	G - M	0 - 654
C - O	1407 0	M - J	1233 0
O - E	0 - 839	J - L	0 - 1782
E - N	387 0		



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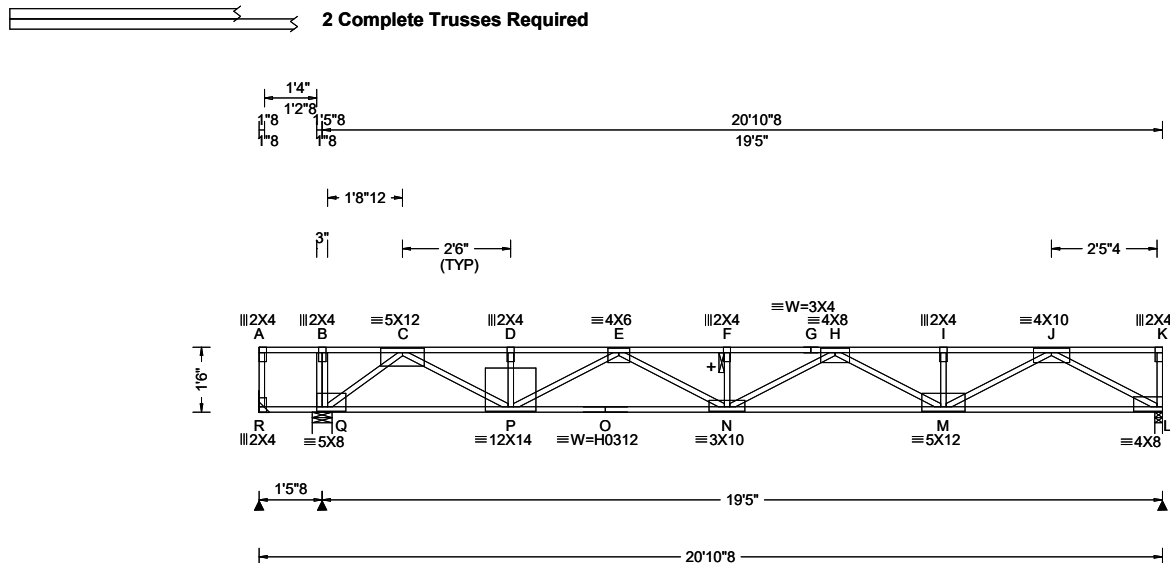
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SEQN: 9776 /	SY42	Ply: 2	Job Number: JB-220683	Cust: R 9316 JRef:1XdW93160006 T8 /
FROM:		Qty: 4	Customer:MCCAMBRIDGE BROTHERS CONS Address:TBA	DrwNo: 075.22.1440.35491
			Truss Label: F19G	/ NDW 03/16/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.290 F 799 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.545 F 426 360	R 24 /-58 /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.041 C - -	Q 3942 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.076 C - -	L 1997 /- /- /- /- /-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	R Brg Wid = - Min Req = -
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.583	Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.585	L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Varies by Ld Case	Max Web CSI: 0.629	Bearings Q & L are a rigid surface.
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Members not listed have forces less than 375#
	Loc. from endwall: NA	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	I: NA GCpi: NA	WAVE HS	VIEW Ver: 21.02.00.1005.17	Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: NA			

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2:

----(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
 TC: From 87 plf at 0.00 to 87 plf at 20.88
 BC: From 13 plf at 0.00 to 13 plf at 20.88
 TC: 443 lb Conc. Load at 0.94
 TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27
 7.60, 8.94, 10.27, 11.60, 12.94

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail
DEFLCMB1014 for camber recommendations.

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

C - D	0 - 3789	G - H	0 - 5138
D - E	0 - 3789	H - I	0 - 3219
E - F	0 - 5138	I - J	0 - 3219
F - G	0 - 5138		

Maximum Bot Chord Forces Per Ply (lbs)							
Chords		Tens.Comp.		Chords		Tens. Comp.	
Q - P	1835	0		N - M	4478	0	
P - O	4877	0		M - L	1748	0	
O - N	4877	0					

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.	Comp.	Webs	Tens. Comp.
B - Q	0	-465	F - N	0 -473
Q - C	0	-2340	N - H	753 0
C - P	2229	0	H - M	0 -1437
P - E	0	-467	M - J	1679 0
D - E	0	-1242	J - L	0 -1984



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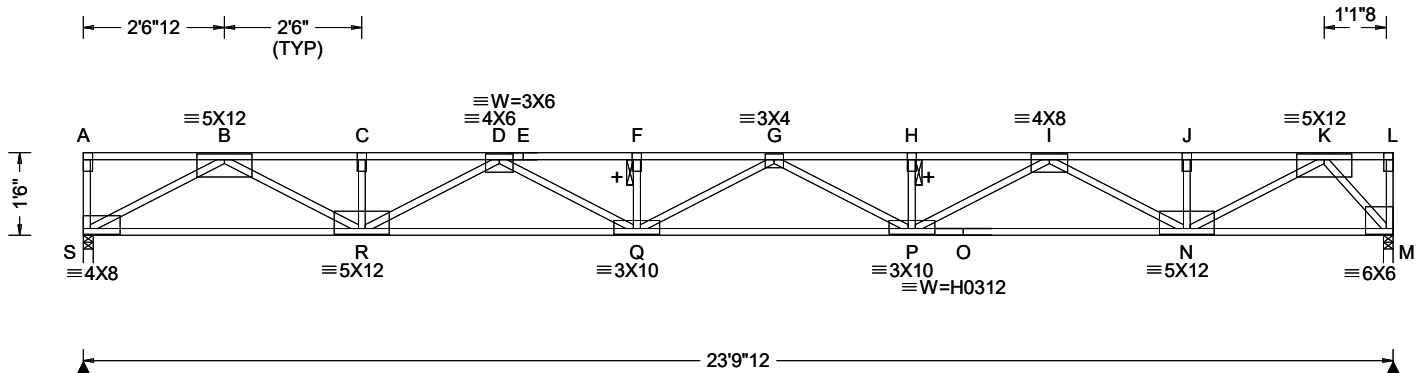
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Building 4

SEQN: 96343 / FROM:	SY42 Qty: 32	Ply: 1 Qty: 32	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F21	Cust: R9316 JRef: 1XdW93160006 T19 / DrwNo: 075.22.1440.27683 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.419 G 682 480 VERT(CL): 0.785 G 364 360 HORZ(LL): 0.056 M - - HORZ(TL): 0.104 M - - Creep Factor: 2.0 Max TC CSI: 0.442 Max BC CSI: 0.664 Max Web CSI: 0.556 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1191 /- /- /- /- /- M 1191 /- /- /- /- /- S Brg Wid = 2.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -3491 G - H 0 -4826 C - D 0 -3491 H - I 0 -4826 D - E 0 -5062 I - J 0 -2773 E - F 0 -5062 J - K 0 -2773 F - G 0 -5062

Lumber

Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

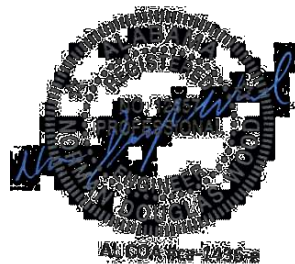
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	1995 0	P - O	4000 0
R - Q	4479 0	O - N	4000 0
Q - P	5145 0	N - M	1047 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - B	0 -2264	P - I	942 0
B - R	1707 0	I - N	0 -1401
R - D	0 -1127	N - K	1969 0
D - Q	665 0	K - M	0 -1557



03/16/2022

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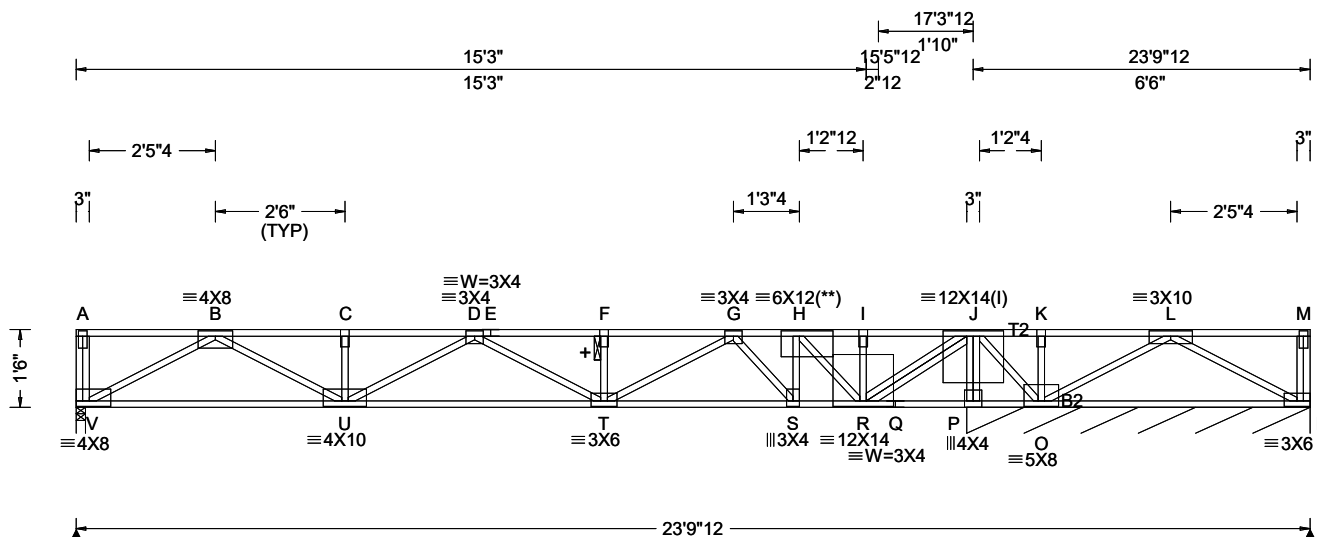
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Building 4

SEQN: 96374 / FROM:	SY42 Qty: 2	Ply: 1	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F22	Cust: R 9316 JRef: 1XdW93160006 T2 / DrwNo: 075.22.1440.28972 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.179 F 999 480 VERT(CL): 0.335 F 613 360 HORZ(LL): 0.026 B - - HORZ(TL): 0.049 B - - Creep Factor: 2.0 Max TC CSI: 0.504 Max BC CSI: 0.472 Max Web CSI: 0.548 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL V 961 /- /- /- /- /- N* 441 /- /- /- /- /- N /-246 V Brg Wid = 2.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2565 G - H 0 -2521 C - D 0 -2565 H - I 0 -698 D - E 0 -3256 I - J 0 -698 E - F 0 -3256 J - K 1825 0 F - G 0 -3256 K - L 1825 0

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

---(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.81
BC: From 13 plf at 0.00 to 13 plf at 23.81
TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



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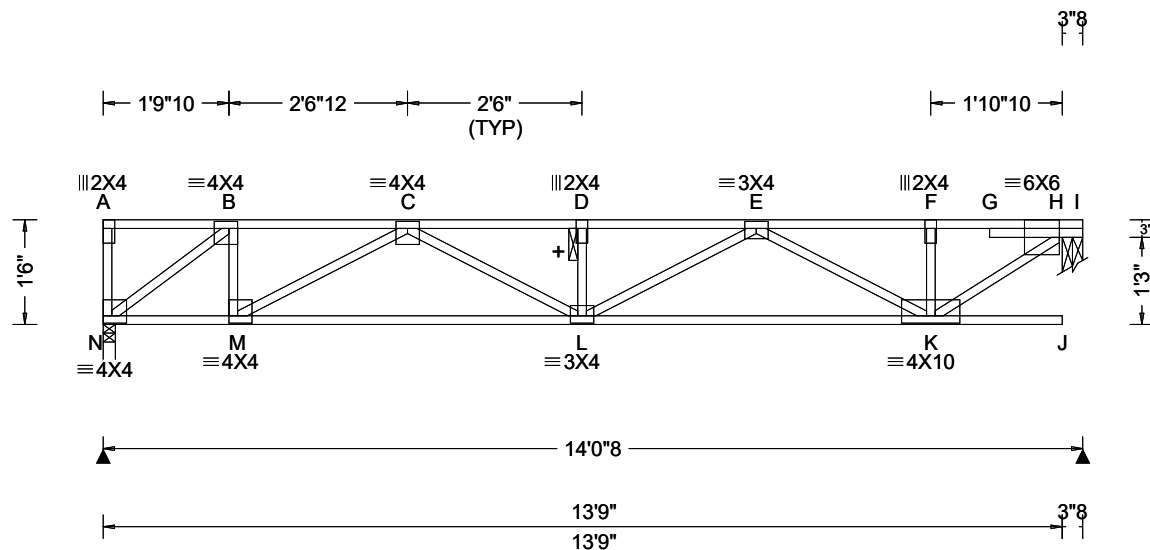
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Building 4

SEQN: 96347 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F23	Cust: R 9316 JRef: 1XdW93160006 T25 / DrwNo: 075.22.1440.28195 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.092 D 999 480 VERT(CL): 0.172 D 970 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.613 Max BC CSI: 0.522 Max Web CSI: 0.325 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 694 /- /- /- /- /- H 707 /- /- /- /- /- N Brg Wid = 2.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -869 E - F 0 -931 C - D 0 -1793 F - H 0 -930 D - E 0 -1793

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

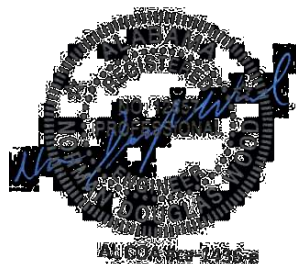
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	831	L - K	1548
M - L	1525		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1045	E - K	0 -704
B - M	425	K - H	1152
M - C	0 -752		0



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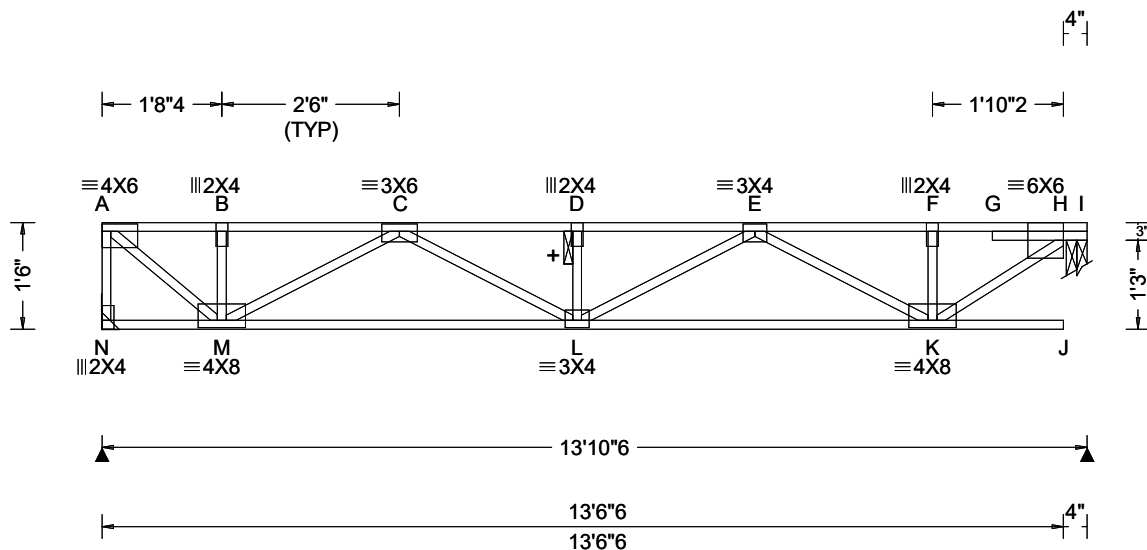
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Earth City, Missouri 63045

Building 4

SEQN: 96349 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F24	Cust: R 9316 JRef: 1XdW93160006 T3 / DrwNo: 075.22.1440.27794 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.090 D 999 480 VERT(CL): 0.167 D 982 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.604 Max BC CSI: 0.513 Max Web CSI: 0.320 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 685 -/- -/- -/- -/- H 697 -/- -/- -/- -/- N Brg Wid = - Min Req = - H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -776 D - E 0 -1749 B - C 0 -776 E - F 0 -917 C - D 0 -1749 F - H 0 -916

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1463 0	L - K	1518 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -684	E - K	0 -687
A - M	1001 0	K - H	1134 0
M - C	0 -784		



03/16/2022

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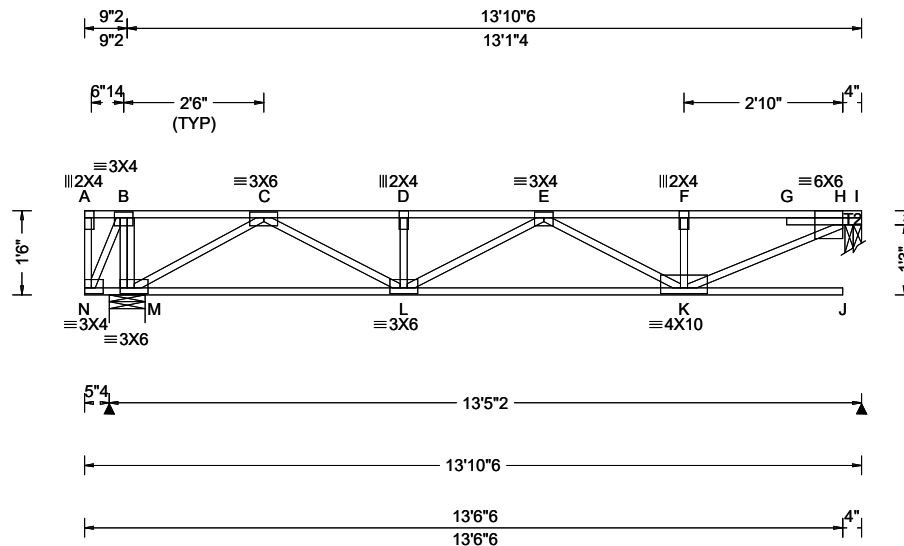
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Building 4

SEQN: 96351 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F25	Cust: R 9316 JRef: 1XdW93160006 T11 / DrwNo: 075.22.1440.28576 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 J 784 480 VERT(CL): 0.316 J 488 360 HORZ(LL): 0.013 A - - HORZ(TL): 0.024 A - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.630 Max Web CSI: 0.367 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL M 729 /- /- /- /- /- H 659 /- /- /- /- /- M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 0 - 1447 E - F 0 - 1177 D - E 0 - 1447 F - H 0 - 1178

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

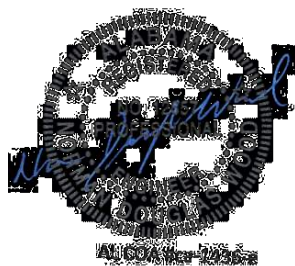
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	912	L - K	1482
	0		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
M - C	0 - 1015	K - H	1301
C - L	614		0



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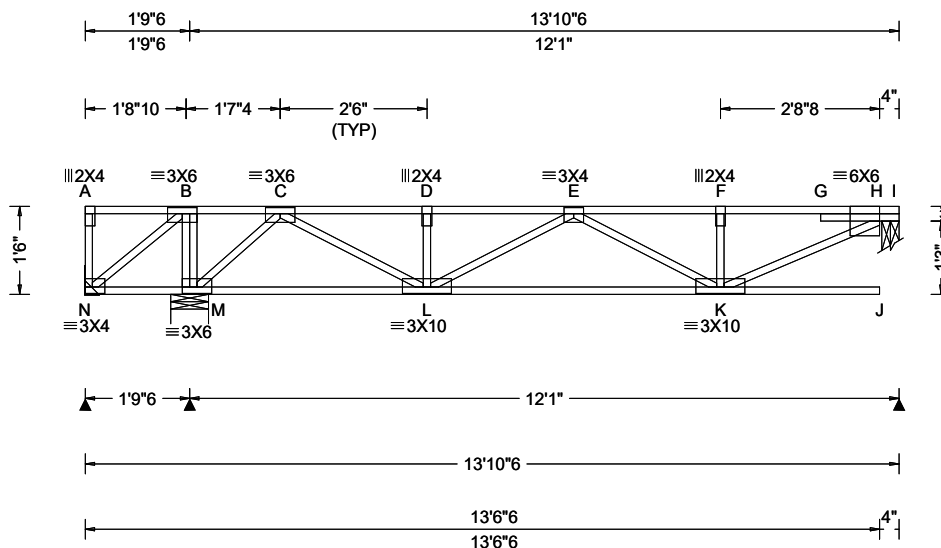
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Building 4

SEQN: 96353 / FROM:	SY42 Qty: 2	Ply: 1	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F26	Cust: R9316 JRef: 1XdW93160006 T5 / DrwNo: 075.22.1440.27861 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCCL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.158 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.284 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - / -358 / - / - / - / - M 1154 / - / - / - / - / - H 547 / - / - / - / - / - N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

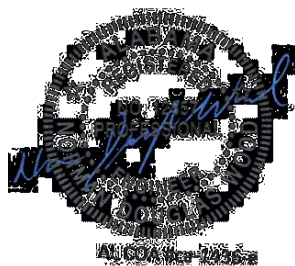
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	0 -465	L - K	1035 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	596 0	C - L	815 0
B - M	0 -533	K - H	1005 0
M - C	0 -843		



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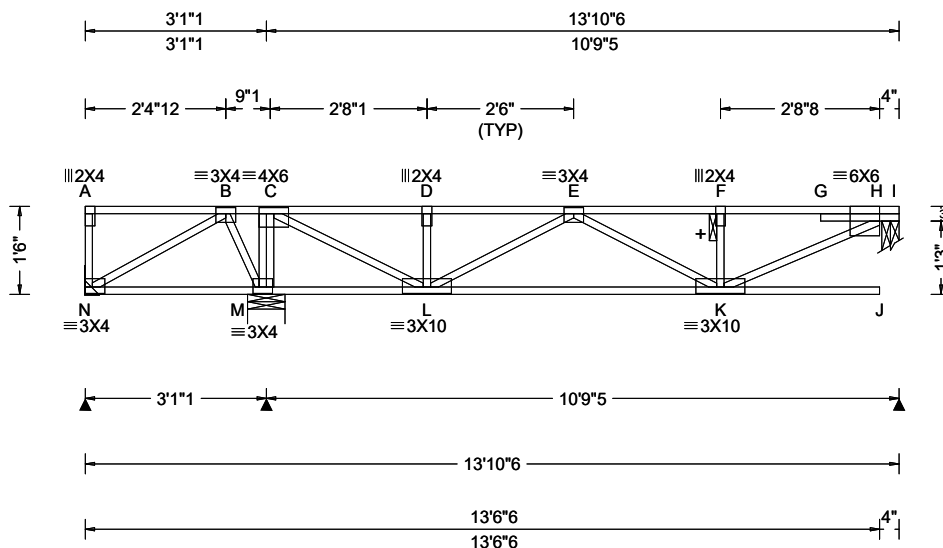
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Building 4

SEQN: 96355 / FROM:	SY42 Qty: 2	Ply: 1	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F27	Cust: R 9316 JRef: 1XdW93160006 T9 / DrwNo: 075.22.1440.27819 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 869 480 VERT(CL): 0.233 J 549 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.748 Max BC CSI: 0.436 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 44 /-139 /- /- /- /- M 963 /- /- /- /- /- H 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 427 0 E - F 0 -782 C - D 0 -495 F - H 0 -784 D - E 0 -495

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

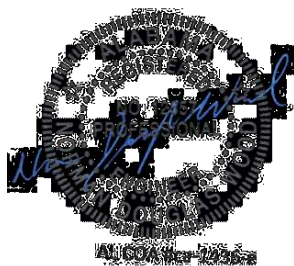
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Truss must be installed as shown with top chord up.



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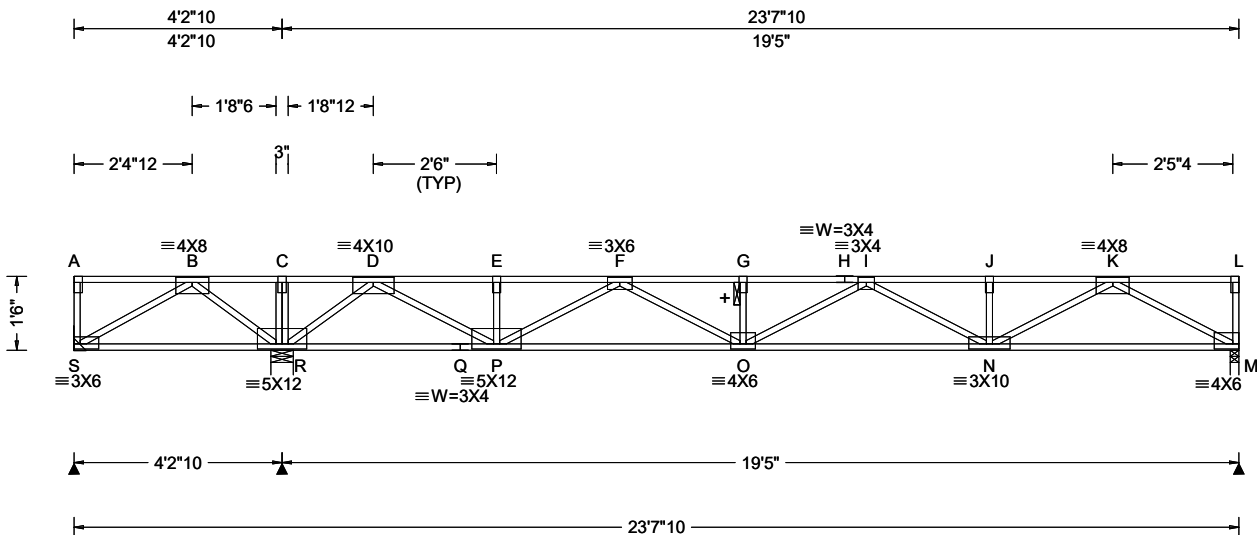
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Building 4

SEQN: 96357 / FROM:	SY42 Qty: 4	Ply: 1 Qty: 4	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F28	Cust: R 9316 JRef: 1XdW93160006 T10 / DrwNo: 075.22.1440.27839 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.196 G 999 480 VERT(CL): 0.369 G 630 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.795 Max Web CSI: 0.467 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-490 /- /- /- /- R 1906 /- /- /- /- /- M 843 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	0 -944	P - O	1976 0
R - Q	0 -440	O - N	2573 0
Q - P	0 -440	N - M	1350 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - B	1088 0	F - O	633 0
B - R	0 -1142	I - N	0 -408
R - D	0 -1649	N - K	988 0
D - P	1656 0	K - M	0 -1532
P - F	0 -1087		



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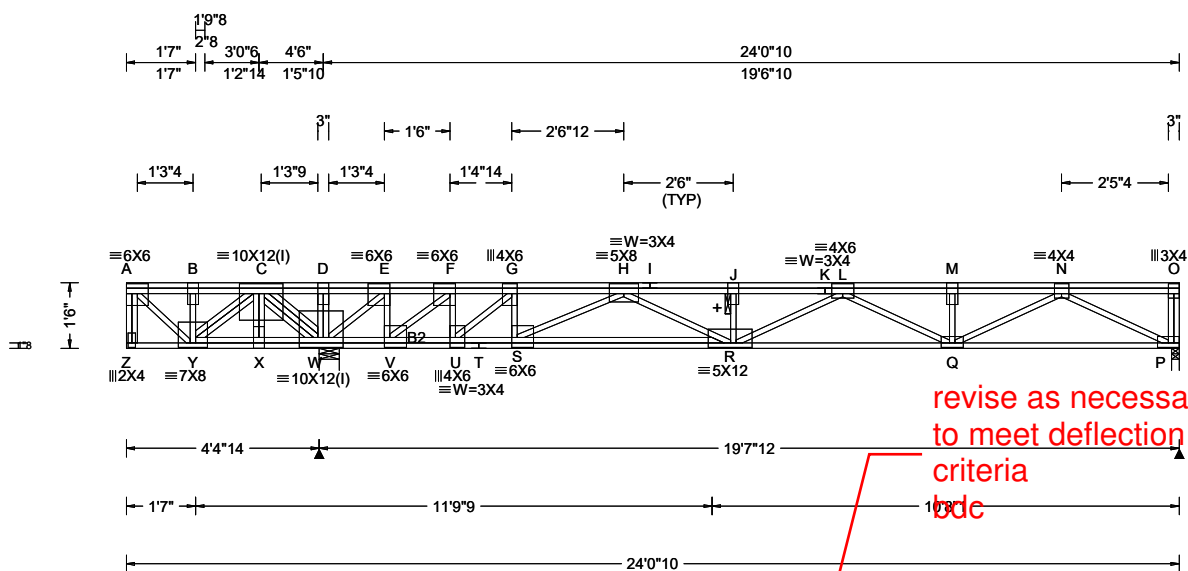
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Building 4

SEQN: 96361 / FROM:	SY42 Qty: 2	Ply: 2 Qty: 2	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: F28G	Cust: R9316 JRef: 1XdW93160006 T12 / DrwNo: 075.22.1440.27824 / NDW 03/16/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCCL: 25.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.120 A 443 480 VERT(CL): 0.268 Z 198 360 HORZ(LL): -0.025 A - - HORZ(TL): 0.057 A - - Creep Factor: 2.0 Max TC CSI: 0.433 Max BC CSI: 0.260 Max Web CSI: 0.271 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL W 8750 -/- /- /- /- /- P 618 -/-243 /- /- /- /- W Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings W & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 597 0 H - I 1855 -383 B - C 597 0 I - J 1855 -383 C - D 5342 0 J - K 1853 -389 D - E 5337 0 K - L 1853 -389 E - F 4767 0 L - M 685 -689 F - G 4126 0 M - N 685 -689 G - H 3551 0

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

---(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.



03/16/2022

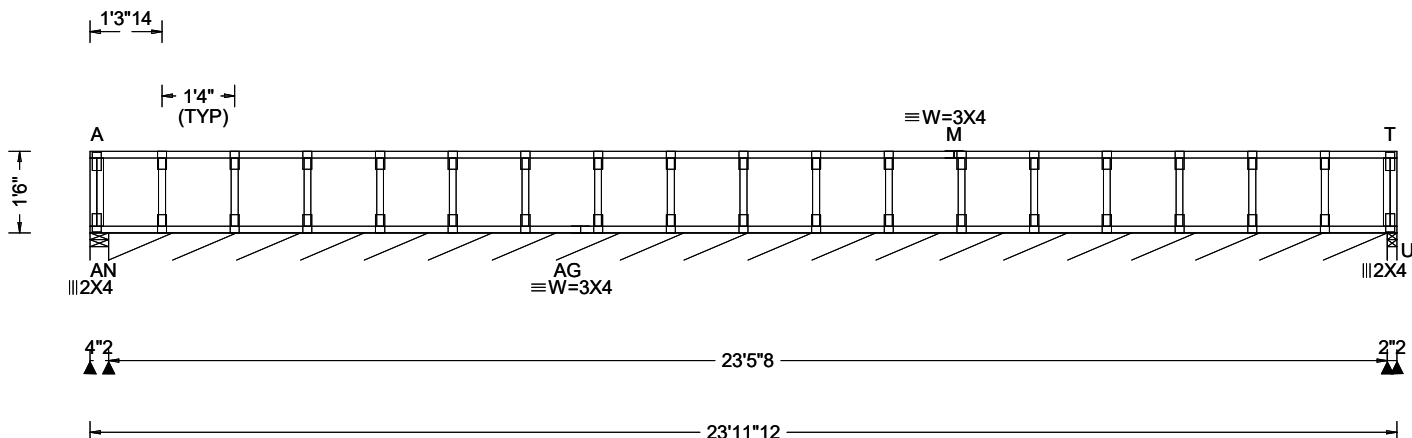
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ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96363 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: L11	Cust: R 9316 JRef: 1XdW93160006 T29 / DrwNo: 075.22.1440.28531 / NDW 03/16/2022
------------------------	----------------	------------------	---	---



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.001 T 999 360 HORZ(LL): -0.003 B - - HORZ(TL): 0.005 B - - Creep Factor: 2.0 Max TC CSI: 0.060 Max BC CSI: 0.013 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity AN 68 -/- /- /- /- AN*97 -/- /- /- /- /- U 64 -/- /- /- /- /- AN Brg Wid = 4.1 Min Req = 1.5 (Truss) AN Brg Wid = 281 Min Req = - U Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AN, AN, & U are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

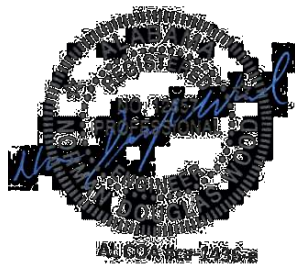
Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



03/16/2022

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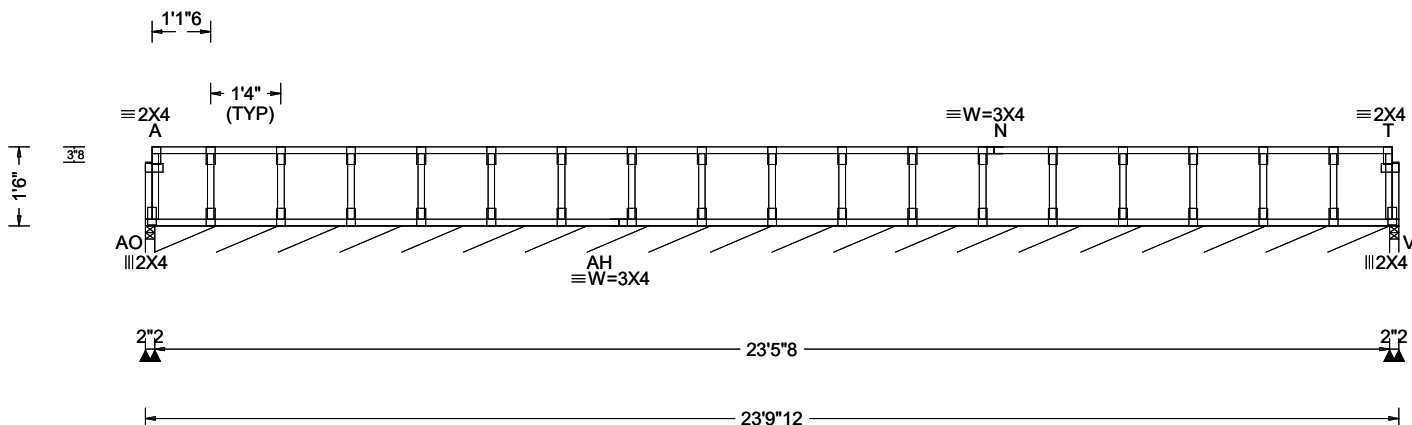
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Earth City, Missouri 63045

Building 4

SEQN: 96365 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220683 Customer: MCCAMBRIDGE BROTHERS CONS Address: TBA Truss Label: L21	Cust: R 9316 JRef: 1XdW93160006 T30 / DrwNo: 075.22.1440.28683 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.000 T 999 360 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.009 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL AO 48 -/-/-/-/- AO*97 -/-/-/-/- V 48 -/-/-/-/- AO Brg Wid = 2.1 Min Req = 1.5 (Truss) AO Brg Wid = 281 Min Req = - V Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AO, AO, & V are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

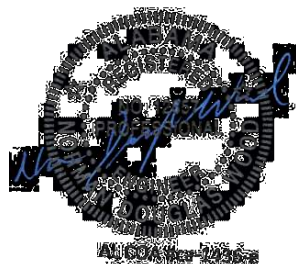
All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.



03/16/2022

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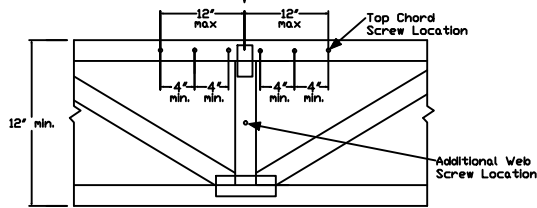
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Earth City, Missouri 63045

System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

Max. Concentrated Load per Chart Below

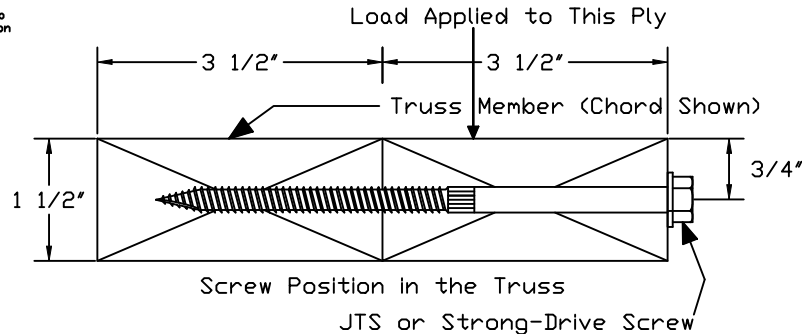


Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

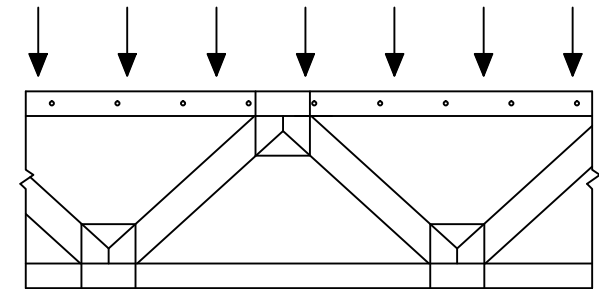
For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

Refer to Alpine sealed drawing for individual truss design.



Max. Uniform Load per Chart Below



For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	312	294	266
20	277	261	240
22	247	231	218
24	237	221	200

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TC LL	Connection
TC DL	DATE 07/2018
BC DL	Y42PL0118
BC LL	
TOT. LD.	
DUR. FAC.	1.00
SPACING	

~~Building 4~~

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type

Recommended Camber

Pitched Trusses

1.00 x Deflection from Actual Dead Load

Sloping Parallel Chord Trusses

1.5 x Vertical Deflection from
Actual Dead Load

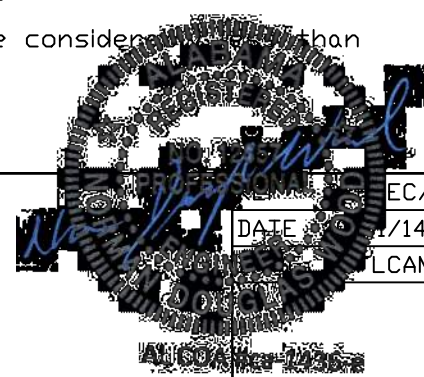
Floor Trusses

$$(0.25 \times \text{Deflection from Live Load}) + \text{Actual Dead Load}$$

Flat Roof Trusses

$$(0.25 \times \text{Deflection from Live Load}) + (1.5 \times \text{Design Dead Load Deflection})$$

Note: The actual dead load may be considerably greater than the design dead load.



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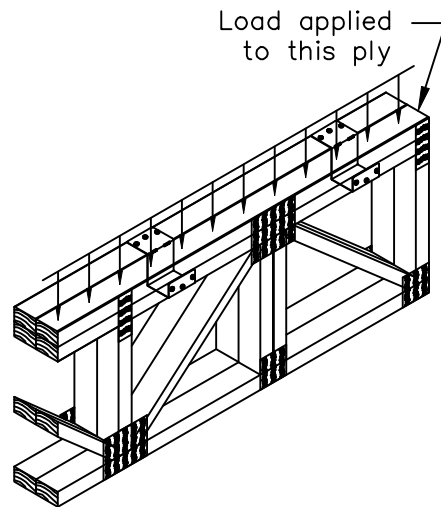


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~~9 03/16/2022~~

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL FOR DOWNWARD LOADS ONLY

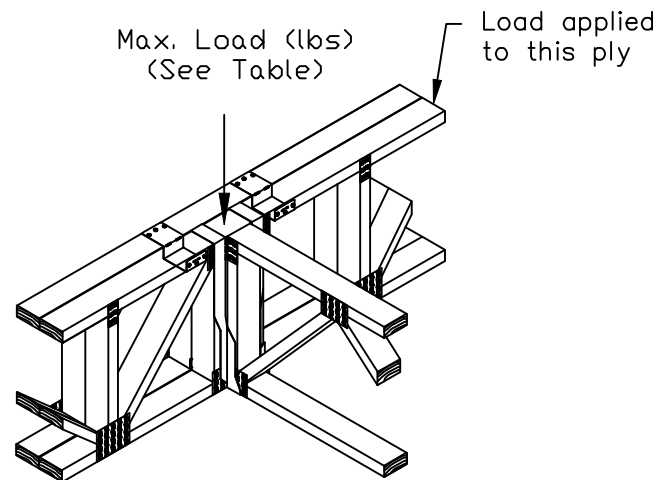
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application

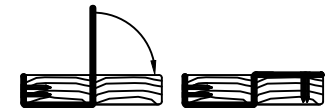


Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

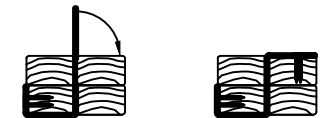
Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.
2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

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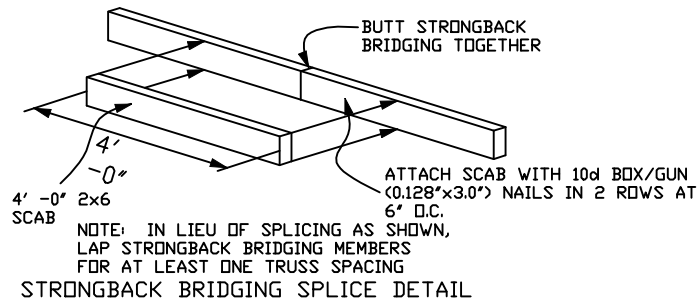
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Earth City, MO 63045



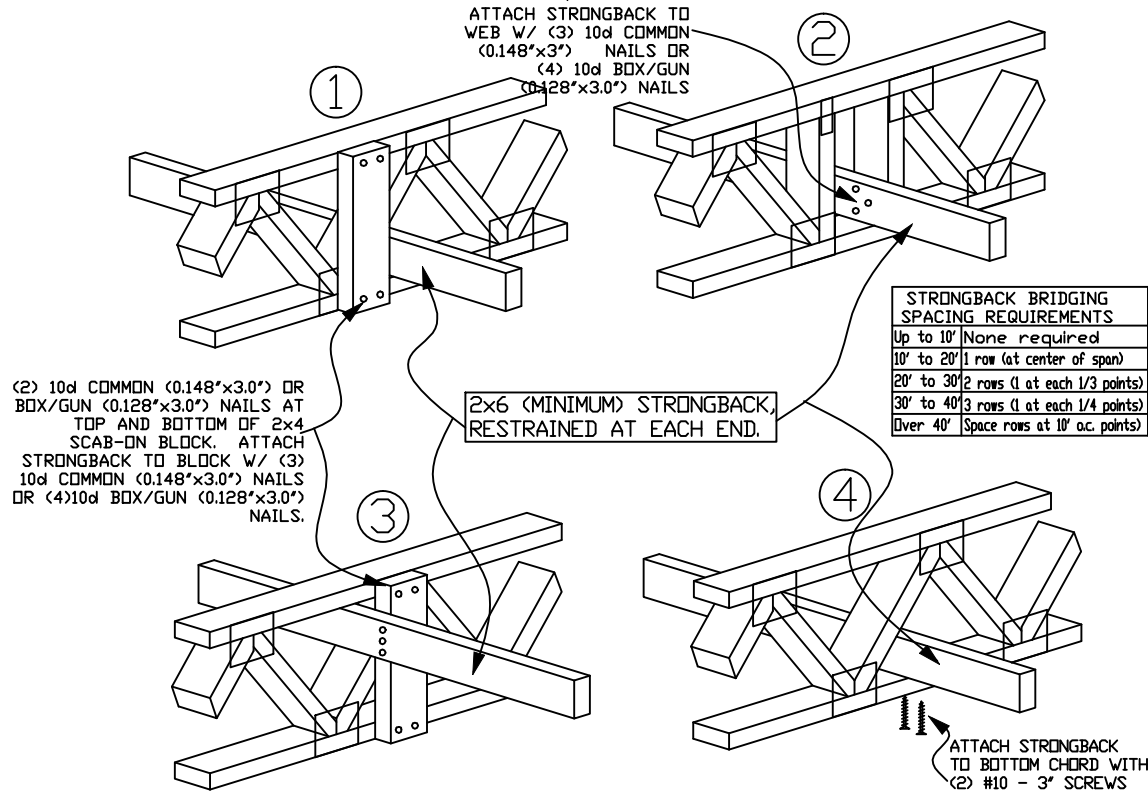
DUR. FAC.

ALL

STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- ▶ All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- ▶ All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- ▶ The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' - 0" o.c. (max.)
- ▶ The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).



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03/16/2022

TC LL	STRONGBACK
TC DL	DATE 14
BC DL	RIBR1014
BC LL	
TOT. LD.	
DUR. FAC.	1.00
SPACING	

8'0"10 — 8'0"10

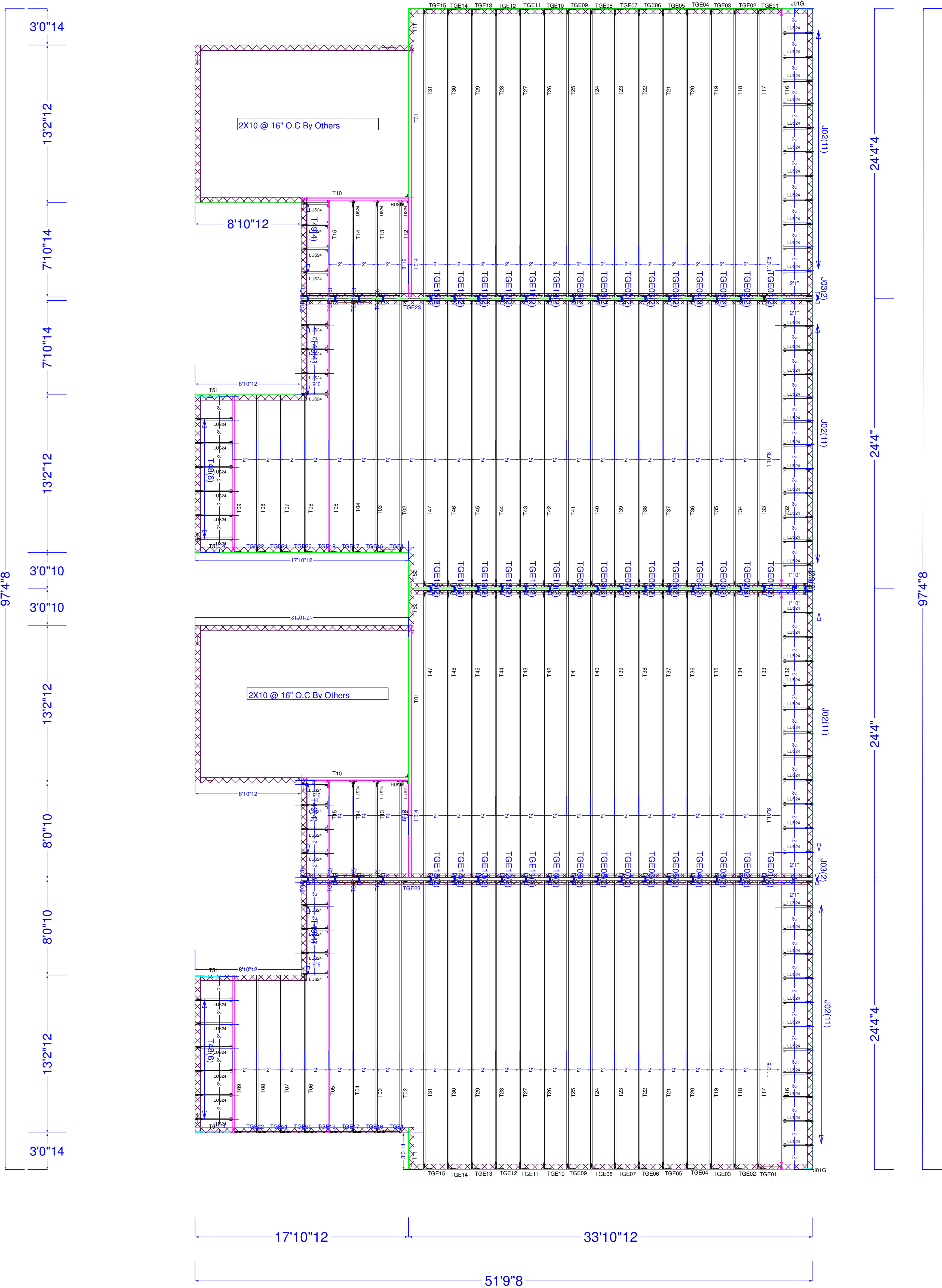
Total Plan Area with OHs = 4539 sq.ft

Symbol	Name	Qty	Manufacturer
	= HUS26	2	Simpson
	= LUS24	78	Simpson

51'9"8

17'10"12

33'10"12



24'4"4

24'4"

24'4" -

24'4"4

97'4"8

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

**NOTE: Yellow ID Tag Location Indicates
Left/Front/Bottom of Truss**



Job Name:

McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220684

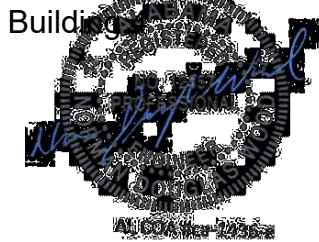
Date: 3/17/2022

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address:

2100 NW Lowenstein Dr
Lee's Summit
MO



Alpine, an ITW company
 514 Earth City Expressway
 Suite 242
 Earth City, MO 63045
 Phone: (800)326-4102 (314)344-9121
 alpineitw.com

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220684
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00 JRef #: 1XdW93160007
Wind Standard: ASCE 7-16 Wind Speed (mph): 109	Design Loading (psf): 40.00
Building Type: Closed	

This package contains general notes pages, 78 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	075.22.1440.33143	J01G	2	075.22.1440.35179	J02
3	075.22.1440.33162	J03	4	075.22.1521.48620	T01
5	075.22.1440.29095	T02	6	075.22.1440.30721	T03
7	075.22.1440.34727	T04	8	075.22.1440.34193	T05
9	075.22.1440.31216	T06	10	075.22.1440.29111	T07
11	075.22.1440.35093	T08	12	075.22.1440.33367	T09
13	075.22.1521.47363	T10	14	075.22.1440.33850	T11
15	075.22.1440.31272	T12	16	075.22.1440.32716	T13
17	075.22.1440.34316	T14	18	075.22.1440.34595	T15
19	075.22.1440.34429	T16	20	075.22.1440.31781	T17
21	075.22.1440.29872	T18	22	075.22.1440.34454	T19
23	075.22.1440.28988	T20	24	075.22.1440.33730	T21
25	075.22.1440.32784	T22	26	075.22.1440.31551	T23
27	075.22.1440.34596	T24	28	075.22.1440.29692	T25
29	075.22.1440.30017	T26	30	075.22.1440.29507	T27
31	075.22.1440.34610	T28	32	075.22.1440.30769	T29
33	075.22.1440.33294	T30	34	075.22.1440.33943	T31
35	075.22.1440.30364	T32	36	075.22.1440.30443	T33
37	075.22.1440.32994	T34	38	075.22.1440.32777	T35
39	075.22.1440.30297	T36	40	075.22.1440.31474	T37
41	075.22.1440.32697	T38	42	075.22.1440.31063	T39
43	075.22.1440.29980	T40	44	075.22.1440.34961	T41
45	075.22.1440.29211	T42	46	075.22.1440.33902	T43
47	075.22.1440.35317	T44	48	075.22.1440.31869	T45
49	075.22.1440.30934	T46	50	075.22.1440.31548	T47



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Site Information:	Page 2:
Customer: Mill Creek Truss	Job Number: JB-220684
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	075.22.1440.29696	T48
53	075.22.1440.33463	T51
55	075.22.1440.34918	TGE01
57	075.22.1440.30991	TGE02
59	075.22.1440.29850	TGE04
61	075.22.1440.31105	TGE06
63	075.22.1440.33820	TGE08
65	075.22.1440.32590	TGE10
67	075.22.1440.30433	TGE12
69	075.22.1440.34594	TGE14
71	075.22.1440.31786	TGE16
73	075.22.1440.29251	TGE18
75	075.22.1521.48628	TGE20
77	075.22.1527.41610	TGE22
79	A11530ENC160118	
81	DEFLCAMB1014	
83	GBLLETIN0118	

Item	Drawing Number	Truss
52	075.22.1440.32173	T49
54	075.22.1521.48610	T52
56	075.22.1440.34462	TGE1
58	075.22.1440.32095	TGE03
60	075.22.1440.32578	TGE05
62	075.22.1440.29420	TGE07
64	075.22.1440.35362	TGE09
66	075.22.1440.29774	TGE11
68	075.22.1440.30567	TGE13
70	075.22.1440.30257	TGE15
72	075.22.1440.33562	TGE17
74	075.22.1521.48614	TGE19
76	075.22.1527.41609	TGE21
78	075.22.1440.29563	TGE23
80	BRCLBSUB0119	
82	GABRST160118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCCL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCCL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

Building 4

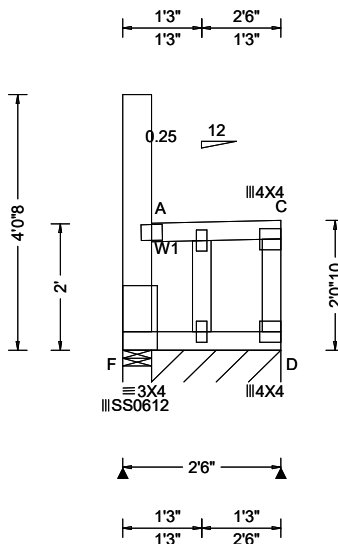
References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 4

SEQN: 96145 / FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: J01G	Cust: R 9316 JRef: 1XdW93160007 T208 DrwNo: 075.22.1440.33143 / NDW 03/16/2022
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15psf, typical all roof
trusses
bdc



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): 18SS, WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 A 999 360 VERT(CL): 0.007 A 999 240 HORZ(LL): 0.092 A - - HORZ(TL): 0.105 A - - Creep Factor: 2.0 Max TC CSI: 0.129 Max BC CSI: 0.373 Max Web CSI: 0.164 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 24 - / - / 117 / 146 / 99 D* 86 - / - / 111 / 58 - Wind reactions based on MWFRS F Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 24.5 Min Req = - Bearings F & F are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

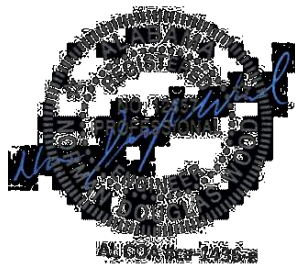
Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, &
GABRST160118 for gable wind bracing and other
requirements.

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

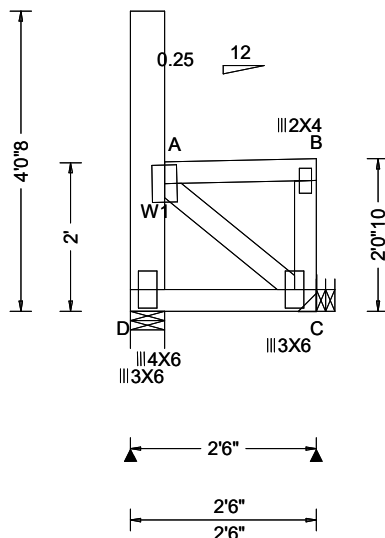
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

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Building 4

SEQN: 96147 / FROM:	MONO Ply: 1 Qty: 44	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: J02	Cust: R 9316 JRef: 1XdW93160007 T218 DrwNo: 075.22.1440.35179 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.091 Max BC CSI: 0.040 Max Web CSI: 0.131 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 88 /- /- /93 /80 /91 C 111 /- /- /133 /64 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. A - C 240 -390

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



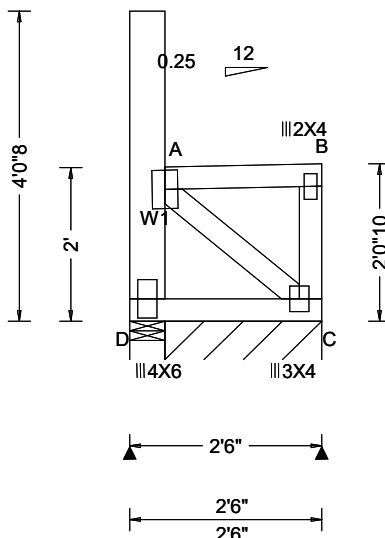
03/16/2022

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Earth City, Missouri 63045

Building 4

SEQN: 96149 / FROM:	MONO Ply: 1 Qty: 6	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: J03	Cust: R 9316 JRef: 1XdW93160007 T135 DrwNo: 075.22.1440.33162 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.091 Max BC CSI: 0.041 Max Web CSI: 0.106 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 88 /- /- /102 /86 /99 C* 54 /- /- /66 /34 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = 24.5 Min Req = - Bearings D & D are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



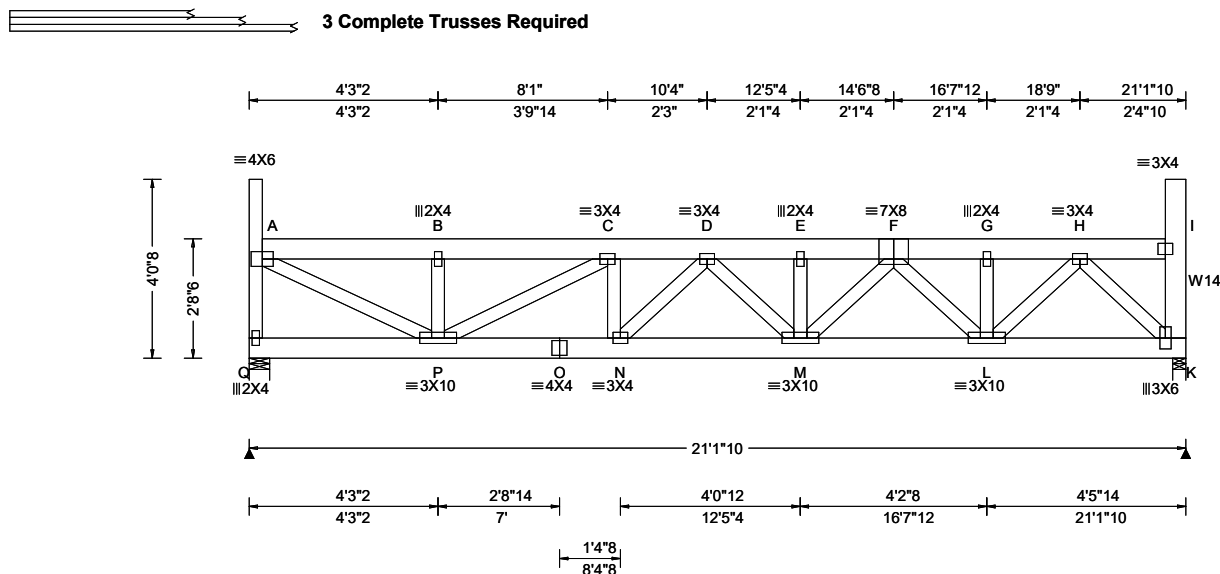
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Earth City, Missouri 63045

Building 4

SEQN: 96151 / FROM:	FLAT Qty: 2	Ply: 3	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T01	Cust: R 9316 JRef: 1XdW93160007 T2 / DrwNo: 075.22.1521.48620 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.035 D 999 360 VERT(CL): 0.070 D 999 240 HORZ(LL): 0.008 K - - HORZ(TL): 0.016 K - - Creep Factor: 2.0 Max TC CSI: 0.030 Max BC CSI: 0.181 Max Web CSI: 0.182 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Q 1230 -/- /- /- /123 -/ K 1447 -/- /- /- /156 -/ Wind reactions based on MWFRS Q Brg Wid = 5.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings Q & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs: 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
——(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 60 plf at 0.29 to 60 plf at 20.68
BC: From 20 plf at 0.00 to 20 plf at 21.14
BC: 1031 lb Conc. Load at 12.90

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 20.39 1.34 13.80 3.32
20.68 0.00 20.39 1.34 13.80 3.32
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.
Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
P - O	1096 -121	M - L	1154 -136
O - N	1096 -121	L - K	485 -57
N - M	1272 -147		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
Q - A	45 -395	F - L	56 -419
A - P	740 -78	L - H	558 -59
P - C	56 -473	H - K	78 -659



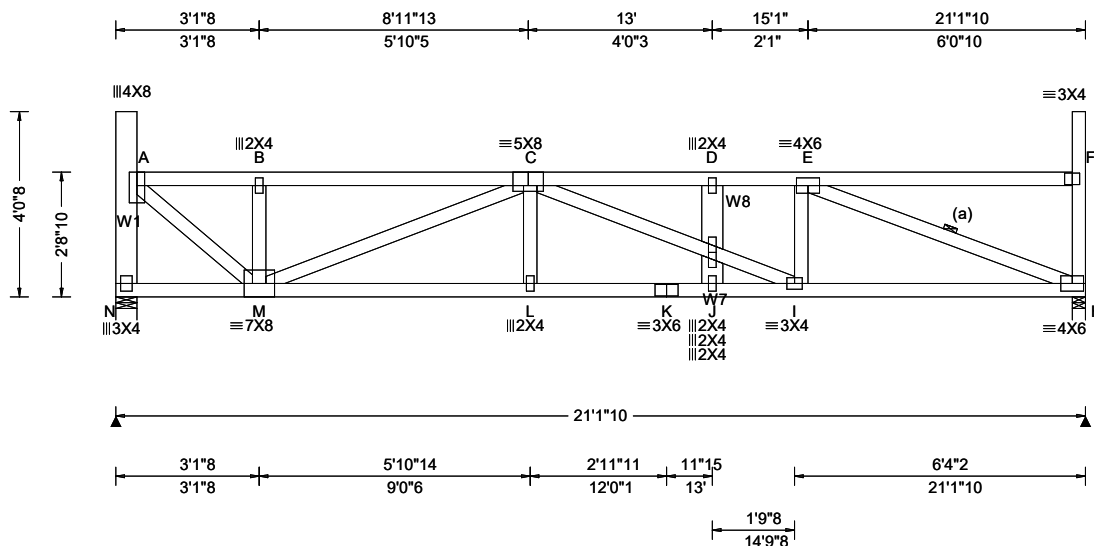
03/16/2022

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Building 4

SEQN: 96153 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T02	Cust: R9316 JRef: 1XdW93160007 T165 DrwNo: 075.22.1440.29095 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.097 D 999 360 VERT(CL): 0.188 D 999 240 HORZ(LL): 0.029 H - - HORZ(TL): 0.055 H - - Creep Factor: 2.0 Max TC CSI: 0.388 Max BC CSI: 0.554 Max Web CSI: 0.694 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 857 /- /- /433 /77 /121 H 868 /- /- /436 /79 /- Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 137 -1050 C - D 147 -1704 B - C 137 -1047 D - E 147 -1704

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.



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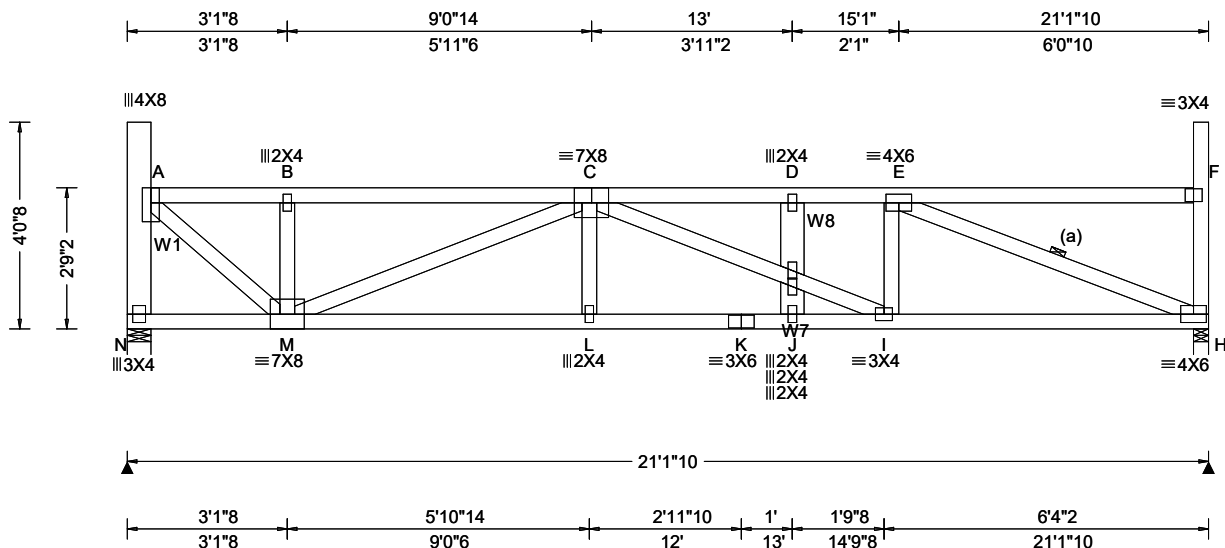
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Building 4

SEQN: 96155 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T03	Cust: R 9316 JRef: 1XdW93160007 T168 DrwNo: 075.22.1440.30721 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.095 D 999 360 VERT(CL): 0.183 D 999 240 HORZ(LL): 0.028 H - - HORZ(TL): 0.054 H - - Creep Factor: 2.0 Max TC CSI: 0.388 Max BC CSI: 0.549 Max Web CSI: 0.690 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 859 - / - / - / 433 / 78 / 120 H 869 - / - / - / 436 / 80 / - Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 135 - 1034 C - D 146 - 1679 B - C 135 - 1031 D - E 146 - 1679

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.



03/16/2022

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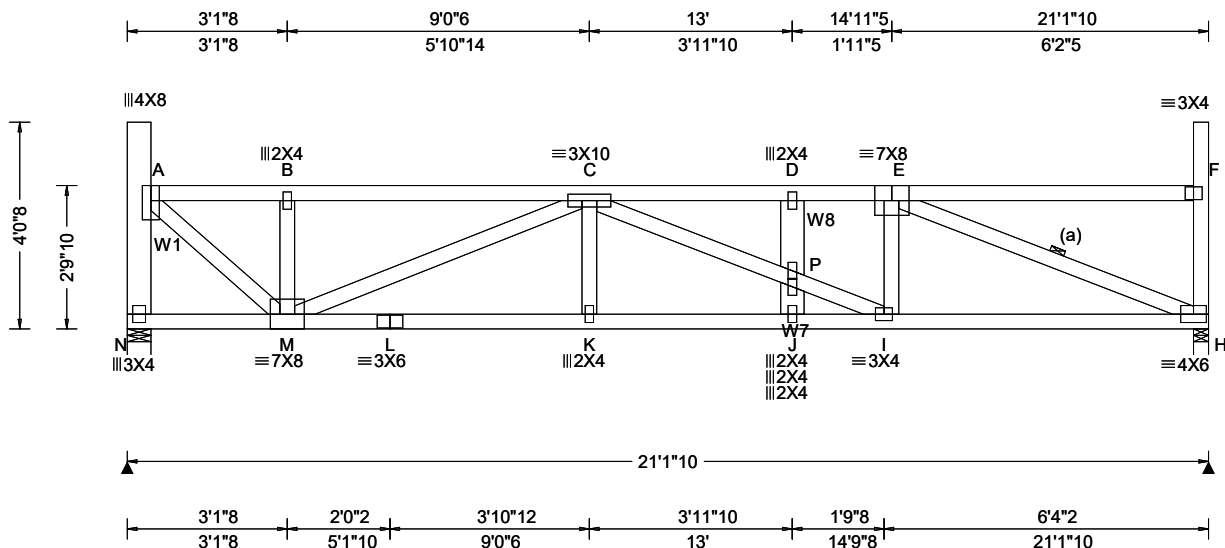
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Building 4

SEQN: 96157 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T04	Cust: R9316 JRef: 1XdW93160007 T134 DrwNo: 075.22.1440.34727 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.092 D 999 360 VERT(CL): 0.170 D 999 240 HORZ(LL): 0.028 H - - HORZ(TL): 0.053 H - - Creep Factor: 2.0 Max TC CSI: 0.394 Max BC CSI: 0.545 Max Web CSI: 0.687 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 859 - / - / - /433 /78 /119 H 869 - / - / - /436 /80 - /- Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 132 - 1016 C - D 168 - 1649 B - C 132 - 1014 D - E 168 - 1649

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

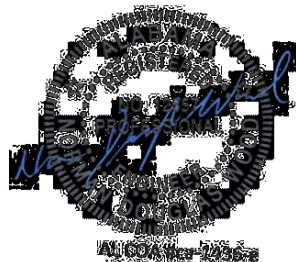
Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.



03/16/2022

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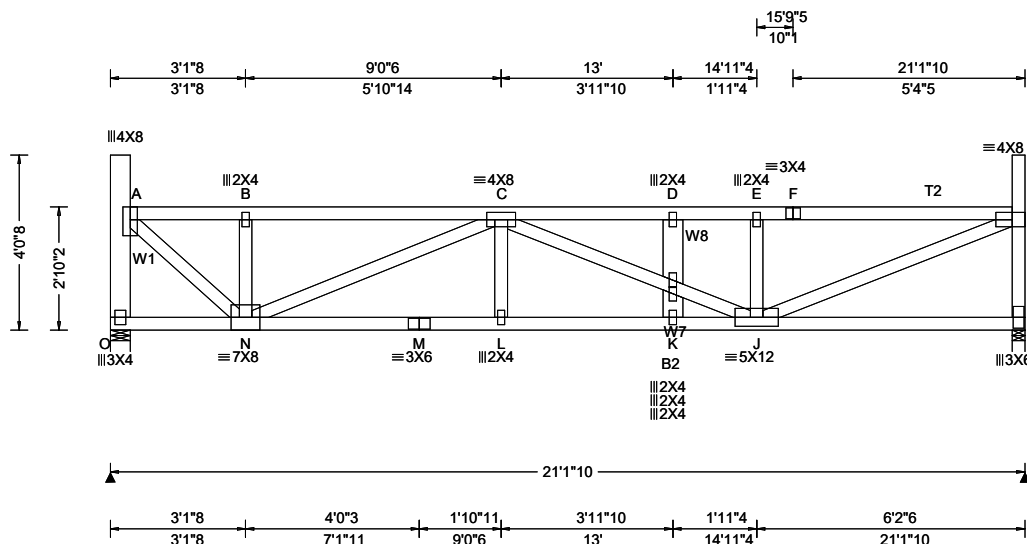
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Building 4

SEQN: 96159 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T05	Cust: R9316 JRef: 1XdW93160007 T167 DrwNo: 075.22.1440.34193 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.094 D 999 360 VERT(CL): 0.182 D 999 240 HORZ(LL): 0.021 A - - HORZ(TL): 0.042 A - - Creep Factor: 2.0 Max TC CSI: 0.477 Max BC CSI: 0.592 Max Web CSI: 0.775 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL O 887 - / - / - / 124 - / - I 1033 - / - / - / 273 - / - Wind reactions based on MWFRS O Brg Wid = 5.5 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings O & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1, W7,
W8 2x6 SPF 1650f-1.5E;

Special Loads

——(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 60 plf at 0.46 to 60 plf at 20.84
BC: From 20 plf at 0.00 to 20 plf at 13.29
BC: From 10 plf at 13.29 to 10 plf at 21.14
BC: 88 lb Conc. Load at 13.29, 15.07, 17.07, 19.07

Loading

Drifting snow load has been considered for only
in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached
spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



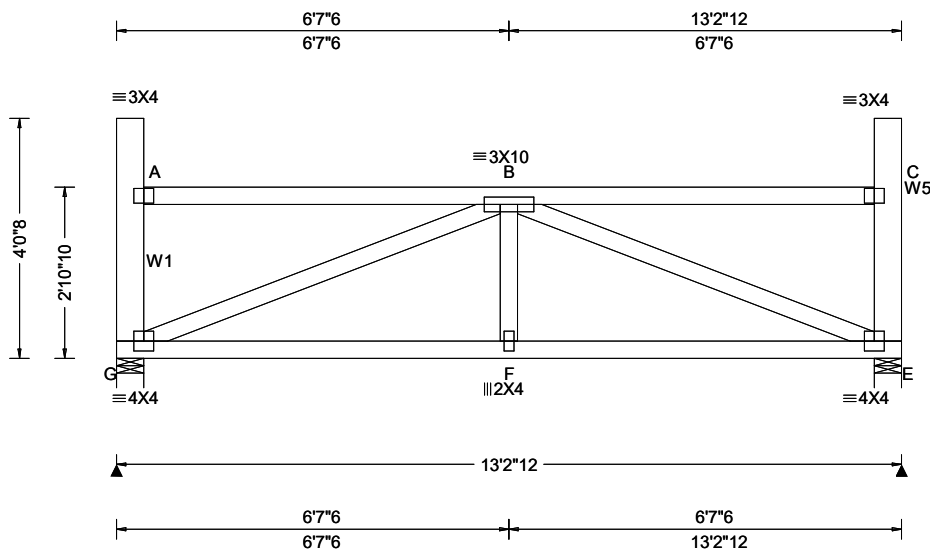
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Building 4

SEQN: 96161 / FROM:	SPEC Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T06	Cust: R 9316 JRef: 1XdW93160007 T149 DrwNo: 075.22.1440.31216 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.55 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.027 F 999 360 VERT(CL): 0.052 F 999 240 HORZ(LL): 0.009 E - - HORZ(TL): 0.018 E - - Creep Factor: 2.0 Max TC CSI: 0.512 Max BC CSI: 0.328 Max Web CSI: 0.694 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 526 - / - / - /280 /59 /116 E 526 - / - / - /280 /59 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 848 -166 F - E 848 -166

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W5 2x6 SPF 1650f-1.5E;

Loading

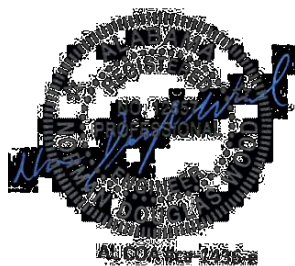
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.59 1.83
12.77 0.00 20.00 1.16 7.59 1.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



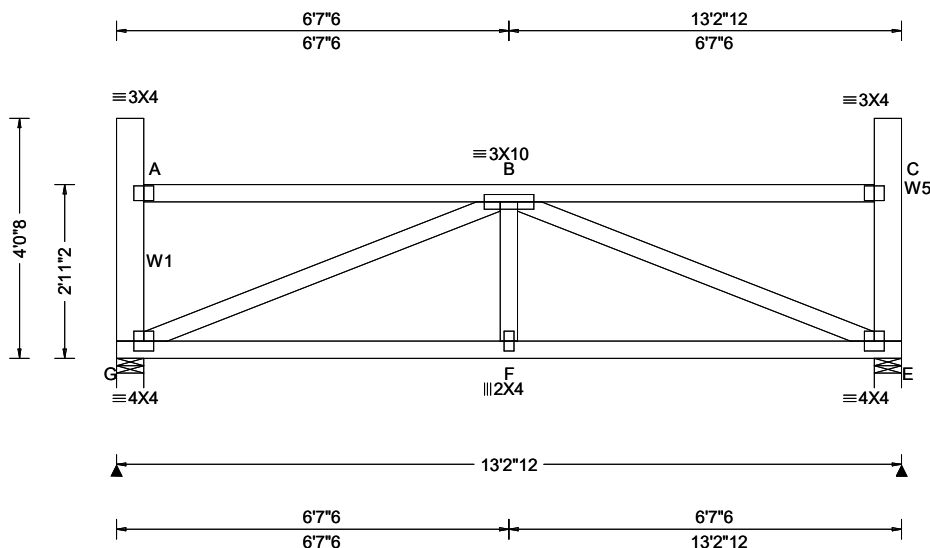
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Building 4

SEQN: 96163 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T07	Cust: R 9316 JRef: 1XdW93160007 T146 DrwNo: 075.22.1440.29111 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.026 F 999 360 VERT(CL): 0.050 F 999 240 HORZ(LL): 0.009 E - - HORZ(TL): 0.018 E - - Creep Factor: 2.0 Max TC CSI: 0.512 Max BC CSI: 0.326 Max Web CSI: 0.688 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 526 - / - / - / 280 / 59 / 115 E 526 - / - / - / 280 / 59 / - Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 835 -164 F - E 835 -164

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W5 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.11 6.20 1.50
12.77 0.00 20.00 1.11 6.20 1.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

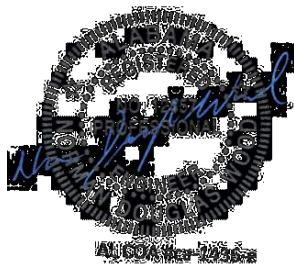
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



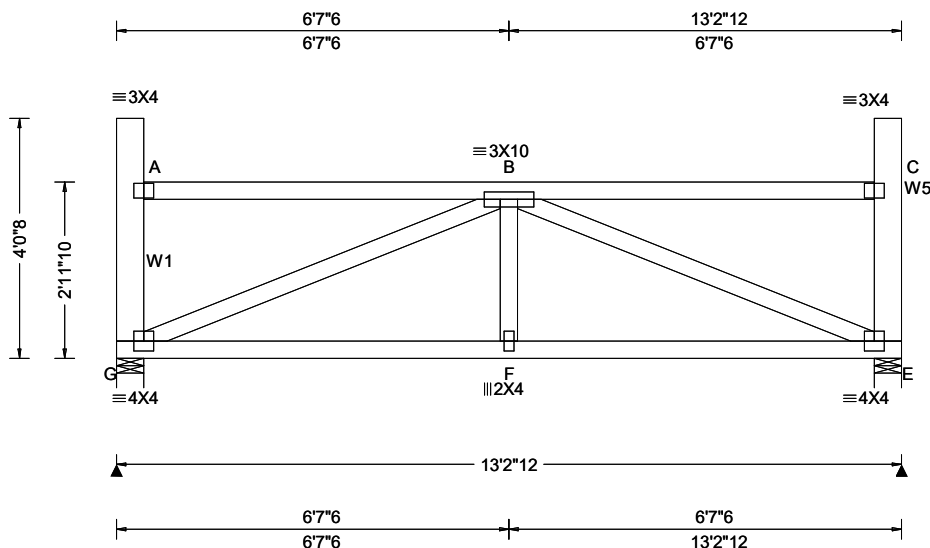
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Building 4

SEQN: 96165 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T08	Cust: R 9316 JRef: 1XdW93160007 T150 DrwNo: 075.22.1440.35093 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.025 F 999 360 VERT(CL): 0.049 F 999 240 HORZ(LL): 0.009 E - - HORZ(TL): 0.018 E - - Creep Factor: 2.0 Max TC CSI: 0.513 Max BC CSI: 0.323 Max Web CSI: 0.682 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 526 /- /- /279 /59 /114 E 526 /- /- /279 /59 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 822 -162 F - E 822 -162

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W5 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



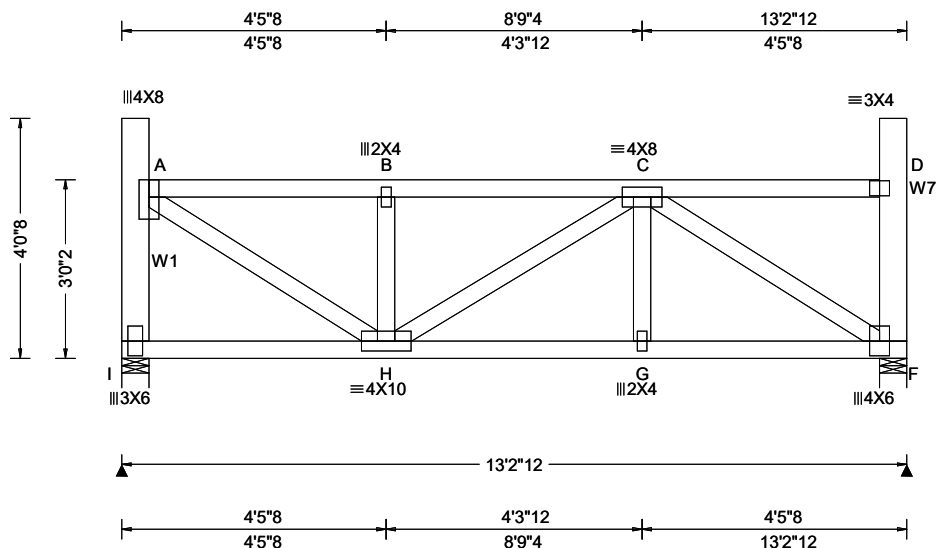
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Building 4

SEQN: 96167 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T09	Cust: R 9316 JRef: 1XdW93160007 T170 DrwNo: 075.22.1440.33367 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.024 G 999 360 VERT(CL): 0.044 G 999 240 HORZ(LL): 0.008 F - - HORZ(TL): 0.015 F - - Creep Factor: 2.0 Max TC CSI: 0.223 Max BC CSI: 0.520 Max Web CSI: 0.487 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 835 -/- /- /213 -/ F 784 -/- /- /194 -/ Wind reactions based on MWFRS I Brg Wid = 5.5 Min Req = 1.5 (Truss) F Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings I & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 264 - 1032 B - C 263 - 1028

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W7 2x6 SPF 1650f-1.5E;

Special Loads

---(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 60 plf at 0.46 to 60 plf at 12.77
BC: From 10 plf at 0.00 to 10 plf at 13.23
BC: 125 lb Conc. Load at 1.17, 3.17, 5.17, 7.17
9.17, 11.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



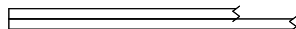
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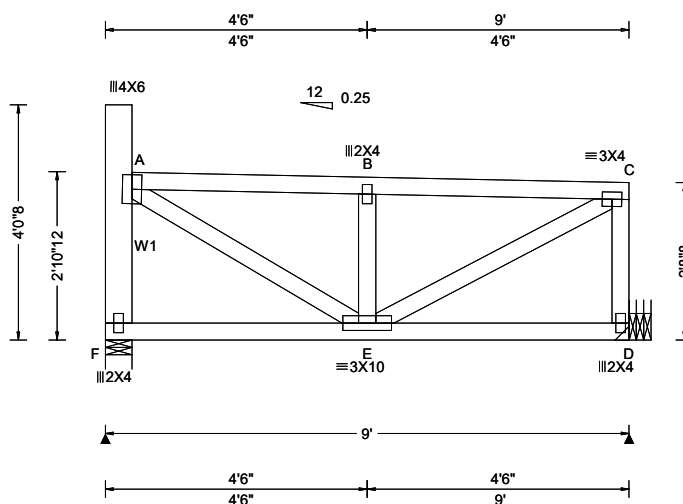
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Earth City, Missouri 63045

Building 4

SEQN: 96169 / FROM:	MONO Ply: 2 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T10	Cust: R 9316 JRef: 1XdW93160007 T1 / DrwNo: 075.22.1521.47363 / NDW 03/16/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.46 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.009 B 999 360 VERT(CL): 0.018 B 999 240 HORZ(LL): 0.002 A - - HORZ(TL): 0.004 A - - Creep Factor: 2.0 Max TC CSI: 0.120 Max BC CSI: 0.287 Max Web CSI: 0.150 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 861 /- /- /- /185 /- D 1031 /- /- /- /159 /- Wind reactions based on MWFRS F Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = - Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 104 -550 B - C 104 -550

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 6.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 30 plf at 0.46 to 30 plf at 9.00
BC: From 20 plf at 0.00 to 20 plf at 2.33
BC: From 10 plf at 2.33 to 10 plf at 9.00
BC: 501 lb Conc. Load at 2.33
BC: 340 lb Conc. Load at 4.33, 6.33, 8.33

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.84
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - E	582 -106	E - C	613 -117



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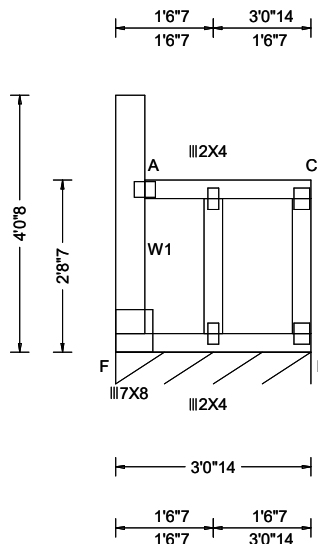
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Building 4

SEQN: 96171 / FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T11	Cust: R 9316 JRef: 1XdW93160007 T187 DrwNo: 075.22.1440.33850 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 360 VERT(CL): 0.009 A 999 240 HORZ(LL): 0.117 A - - HORZ(TL): 0.136 A - - Creep Factor: 2.0 Max TC CSI: 0.116 Max BC CSI: 0.326 Max Web CSI: 0.142 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 74 /- /- /37 /5 /30 Wind reactions based on MWFRS D Brg Wid = 36.9 Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.34 13.63 2.61
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, &
GABRST160118 for gable wind bracing and other
requirements.

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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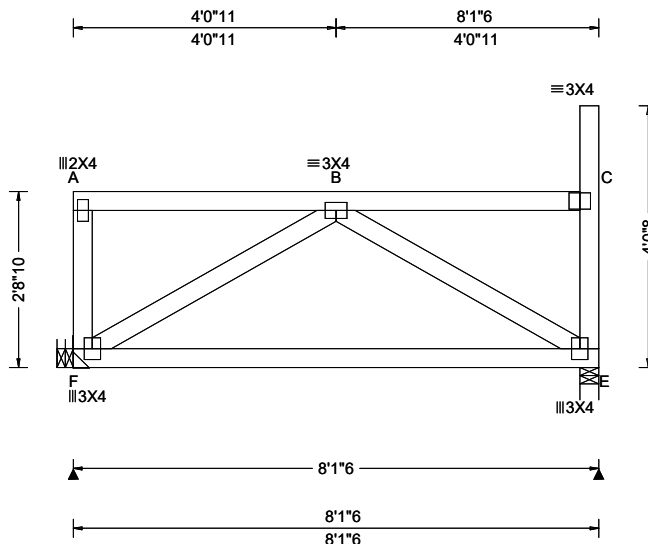
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514 Earth City Expressway
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Building 4

SEQN: 96173 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T12	Cust: R 9316 JRef: 1XdW93160007 T110 DrwNo: 075.22.1440.31272 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.004 B 999 360 VERT(CL): 0.008 B 999 240 HORZ(LL): 0.002 E - - HORZ(TL): 0.004 E - - Creep Factor: 2.0 Max TC CSI: 0.199 Max BC CSI: 0.364 Max Web CSI: 0.148 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 340 /- /- /189 /46 /93 E 322 /- /- /177 /47 /- Wind reactions based on MWFRS F Brg Wid = - Min Req = - E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing E is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	7.82	0.00	20.00	1.32	13.12 3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

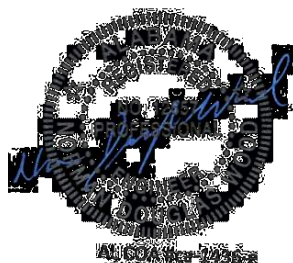
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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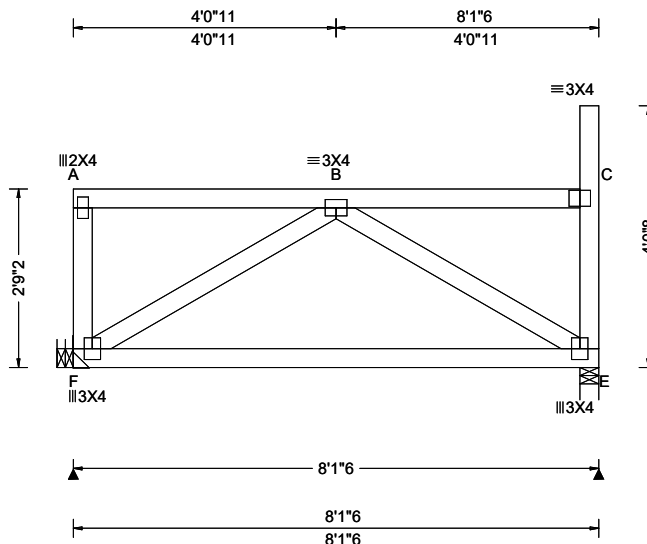
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Building 4

SEQN: 96175 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T13	Cust: R 9316 JRef: 1XdW93160007 T229 DrwNo: 075.22.1440.32716 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.004 B 999 360 VERT(CL): 0.007 B 999 240 HORZ(LL): 0.002 E - - HORZ(TL): 0.004 E - - Creep Factor: 2.0 Max TC CSI: 0.199 Max BC CSI: 0.362 Max Web CSI: 0.140 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity F 340 /- /- /189 /46 /92 E 322 /- /- /177 /47 /- Wind reactions based on MWFRS F Brg Wid = - Min Req = - E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing E is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	7.82	0.00	20.00	1.28	11.74 2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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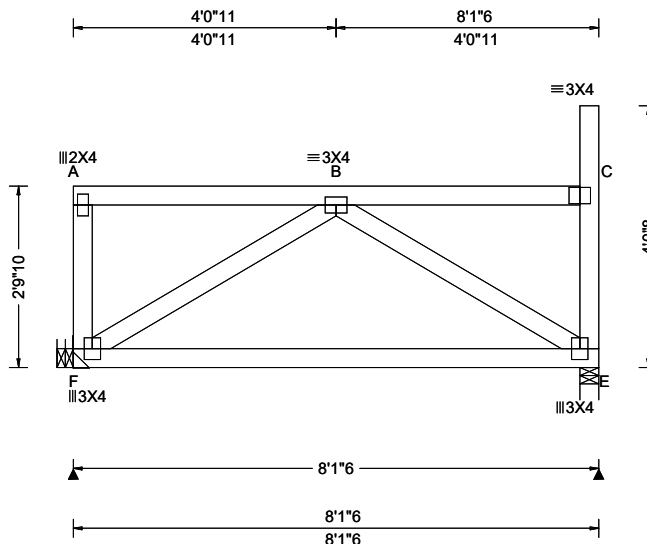
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Building 4

SEQN: 96177 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T14	Cust: R 9316 JRef: 1XdW93160007 T206 DrwNo: 075.22.1440.34316 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.004 B 999 360 VERT(CL): 0.007 B 999 240 HORZ(LL): 0.002 E - - HORZ(TL): 0.004 E - - Creep Factor: 2.0 Max TC CSI: 0.199 Max BC CSI: 0.361 Max Web CSI: 0.132 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 340 /- /- /189 /46 /92 E 322 /- /- /177 /47 /- Wind reactions based on MWFRS F Brg Wid = - Min Req = - E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing E is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	7.82	0.00	20.00	1.24	10.35 2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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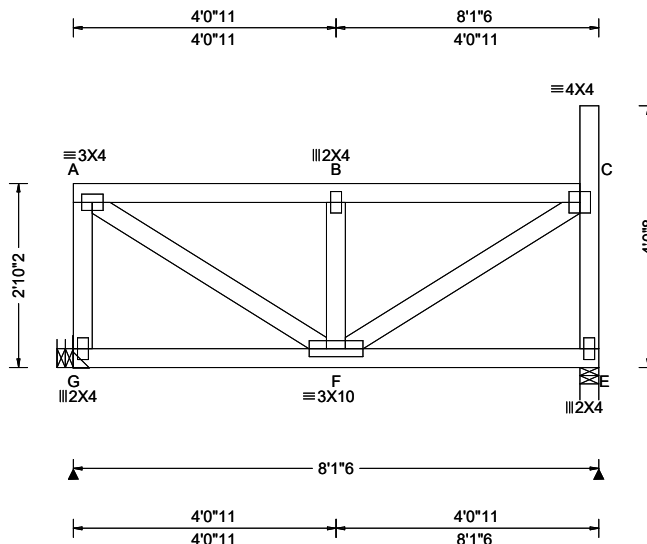
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Building 4

SEQN: 96179 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T15	Cust: R 9316 JRef: 1XdW93160007 T212 DrwNo: 075.22.1440.34595 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.008 B 999 360 VERT(CL): 0.014 B 999 240 HORZ(LL): -0.001 C - - HORZ(TL): 0.003 C - - Creep Factor: 2.0 Max TC CSI: 0.208 Max BC CSI: 0.189 Max Web CSI: 0.126 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 501 /- /- /- /191 /- E 402 /- /- /- /131 /- Wind reactions based on MWFRS G Brg Wid = - Min Req = - E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing E is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 157 -441 B - C 157 -445

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

——(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 60 plf at 0.00 to 60 plf at 7.82
BC: From 10 plf at 0.00 to 10 plf at 8.11
BC: 88 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	7.82	0.00	20.00	1.20	8.97 2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



03/16/2022

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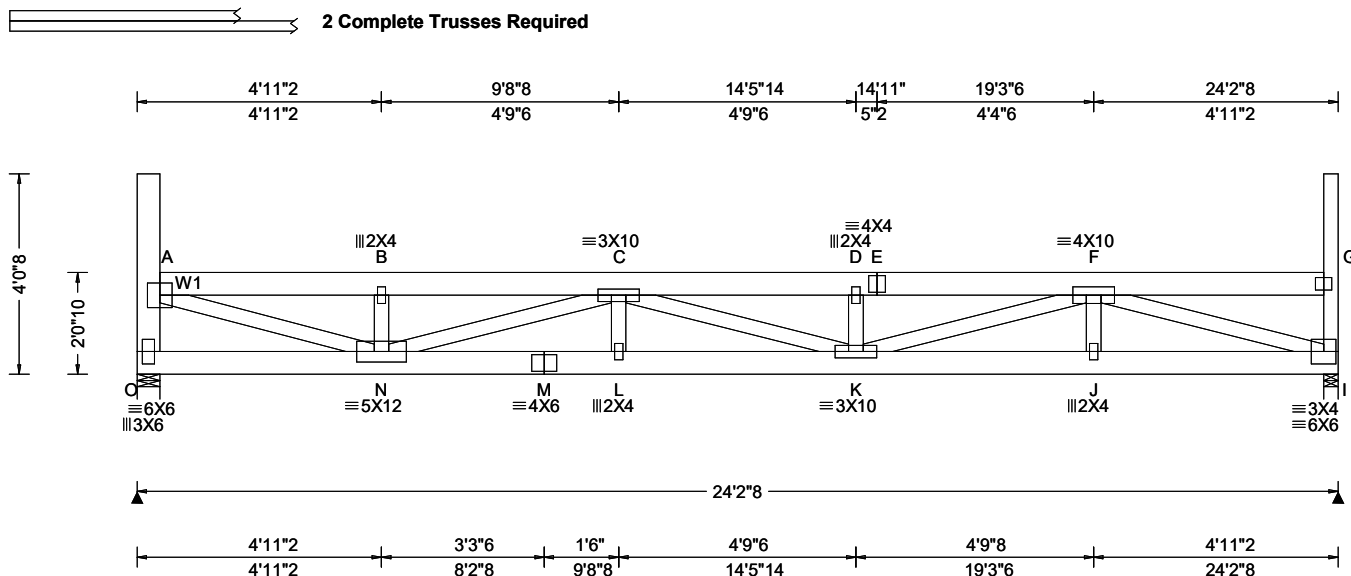
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Building 4

SEQN: 96181 / FROM:	FLAT Ply: 2 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T16	Cust: R 9316 JRef: 1XdW93160007 T112 DrwNo: 075.22.1440.34429 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.107 D 999 360 VERT(CL): 0.217 D 999 240 HORZ(LL): 0.016 I - - HORZ(TL): 0.033 I - - Creep Factor: 2.0 Max TC CSI: 0.078 Max BC CSI: 0.291 Max Web CSI: 0.402 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL O 1083 -/- /- /- /385 -/ I 1103 -/- /- /- /376 -/ Wind reactions based on MWFRS O Brg Wid = 5.5 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings O & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 516 -1419 D - E 757 -2083 B - C 515 -1415 E - F 757 -2083 C - D 757 -2083

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs: 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 30 plf at 0.46 to 30 plf at 23.92
BC: From 10 plf at 0.00 to 10 plf at 22.06
BC: From 20 plf at 22.06 to 20 plf at 24.21
BC: 111 lb Conc. Load at 2.06, 4.06, 6.06, 8.06, 10.06, 12.06, 14.06, 16.06, 18.06, 20.06, 22.06

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.99	34.38 4.14
	23.92	0.00	23.46	1.99	34.38 4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.



03/16/2022

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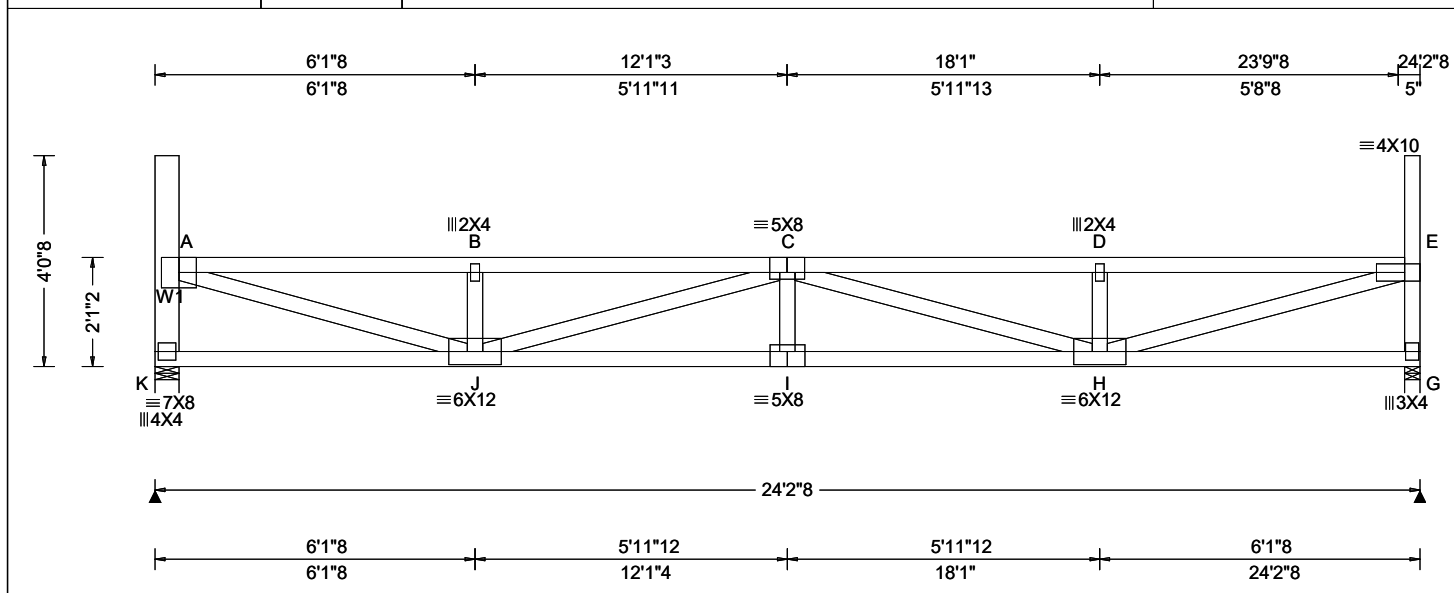
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Earth City, Missouri 63045

Building 4

SEQN: 96183 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T17	Cust: R 9316 JRef: 1XdW93160007 T175 DrwNo: 075.22.1440.31781 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.76 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.280 I 999 360 VERT(CL): 0.539 I 538 240 HORZ(LL): 0.041 A - - HORZ(TL): 0.079 A - - Creep Factor: 2.0 Max TC CSI: 0.594 Max BC CSI: 0.931 Max Web CSI: 0.671 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 987 /- /- /495 /84 /139 G 998 /- /- /498 /86 /- Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 258 -2708 C - D 257 -2711 B - C 257 -2704 D - E 258 -2715

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.95 33.87 4.20
23.92 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.26". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



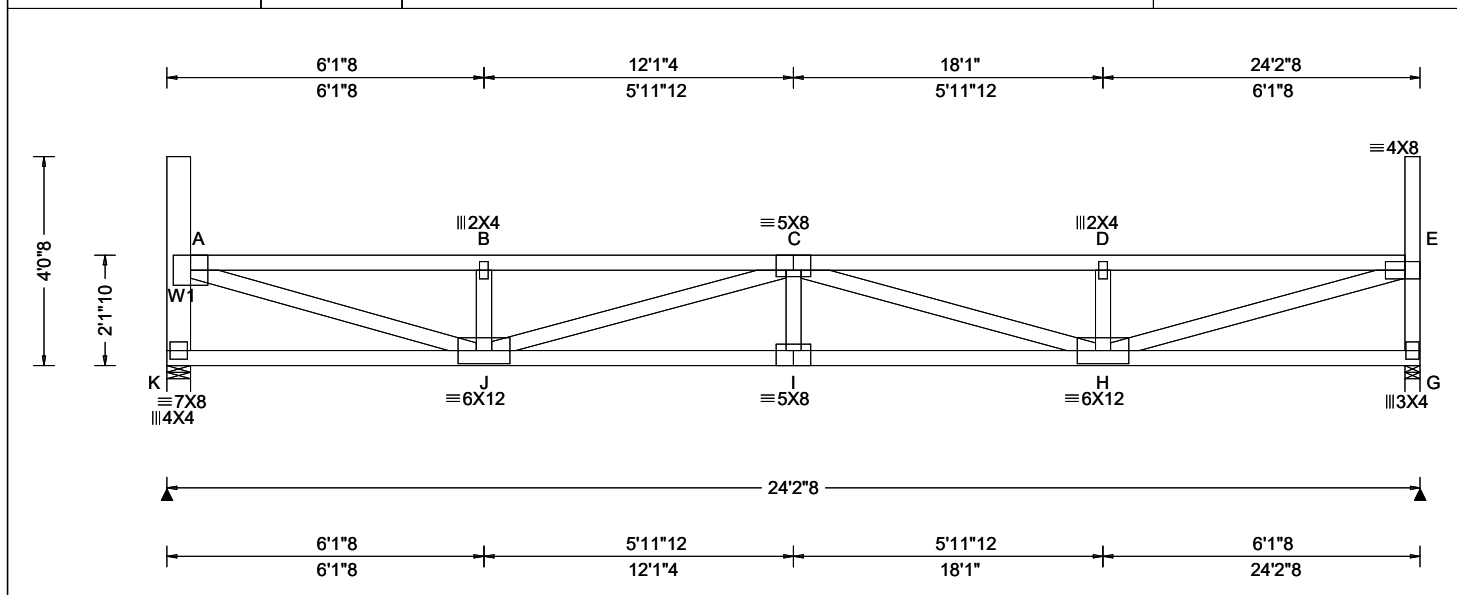
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Building 4

SEQN: 96185 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T18	Cust: R 9316 JRef: 1XdW93160007 T180 DrwNo: 075.22.1440.29872 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.268 I 999 360 VERT(CL): 0.516 I 562 240 HORZ(LL): 0.041 A - - HORZ(TL): 0.078 A - - Creep Factor: 2.0 Max TC CSI: 0.587 Max BC CSI: 0.910 Max Web CSI: 0.657 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 988 -/- /- /495 /85 /138 G 998 -/- /- /498 /87 -/ Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 253 -2649 C - D 253 -2651 B - C 253 -2645 D - E 253 -2656 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. J - I 3418 -319 I - H 3418 -319 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. K - A 98 -927 C - H 134 -802 A - J 2633 -255 H - E 2678 -255 J - C 139 -809 E - G 100 -941

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.91 32.49 4.38
23.92 0.00 23.46 1.91 32.49 4.38
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.25". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



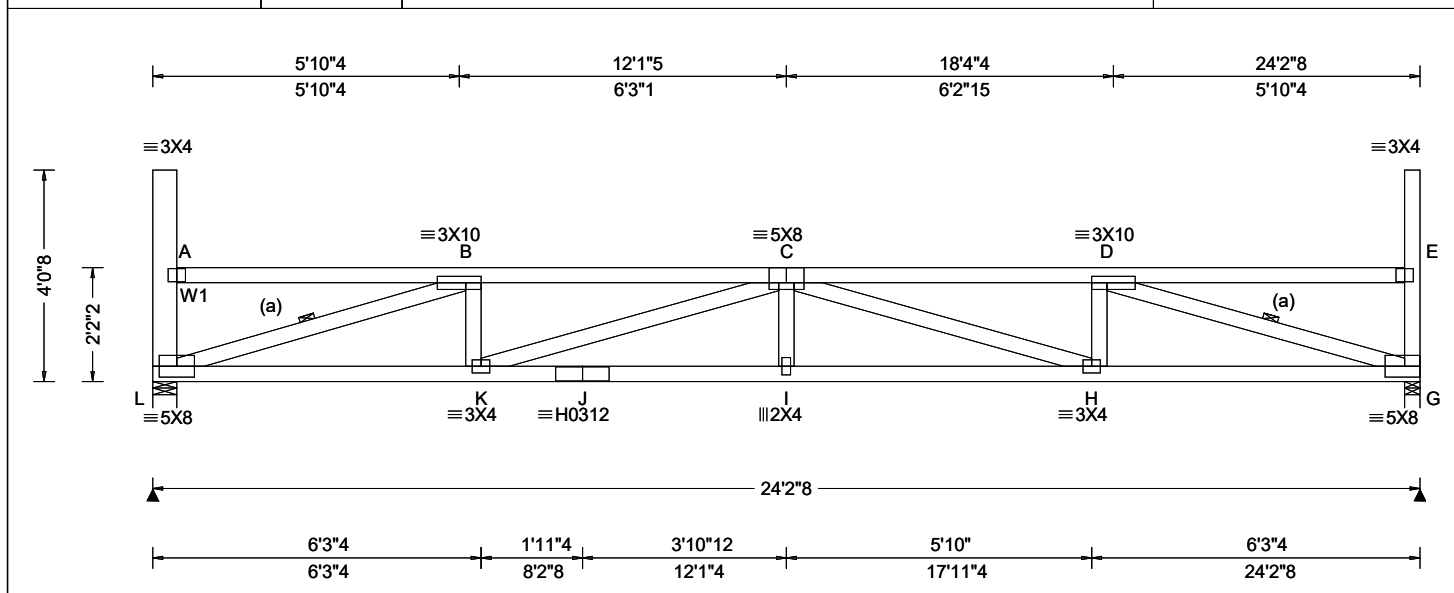
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Building 4

SEQN: 96187 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T19	Cust: R 9316 JRef: 1XdW93160007 T171 DrwNo: 075.22.1440.34454 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.84 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.255 I 999 360 VERT(CL): 0.491 I 591 240 HORZ(LL): 0.060 G - - HORZ(TL): 0.116 G - - Creep Factor: 2.0 Max TC CSI: 0.435 Max BC CSI: 0.883 Max Web CSI: 0.553 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 987 /- /- /495 /85 /136 G 998 /- /- /498 /87 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 245 -2596 C - D 245 -2602

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

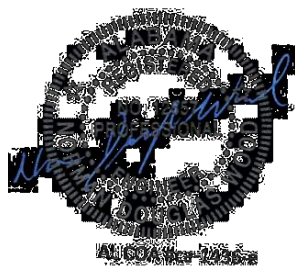
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



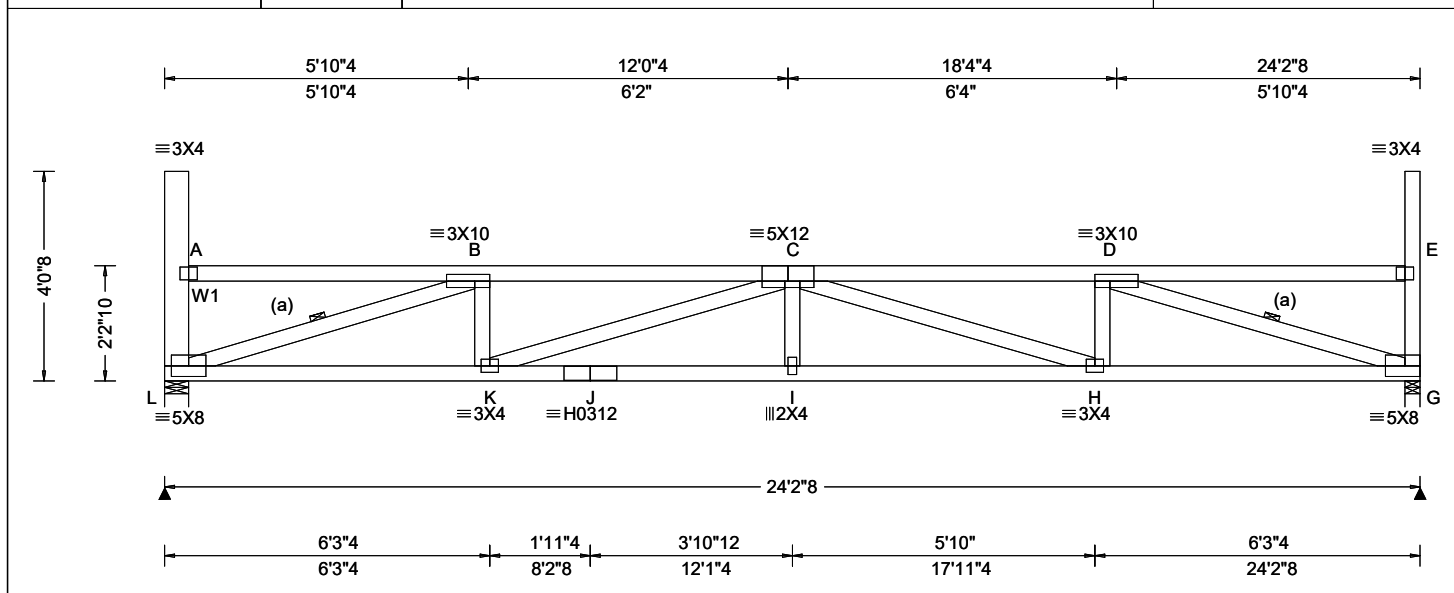
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Building 4

SEQN: 96189 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T20	Cust: R 9316 JRef: 1XdW93160007 T179 DrwNo: 075.22.1440.28988 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.89 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.245 I 999 360 VERT(CL): 0.471 I 616 240 HORZ(LL): 0.059 G - - HORZ(TL): 0.114 G - - Creep Factor: 2.0 Max TC CSI: 0.434 Max BC CSI: 0.864 Max Web CSI: 0.544 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 988 /- /- /495 /85 /135 G 998 /- /- /498 /87 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 241 -2541 C - D 240 -2547

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.23". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

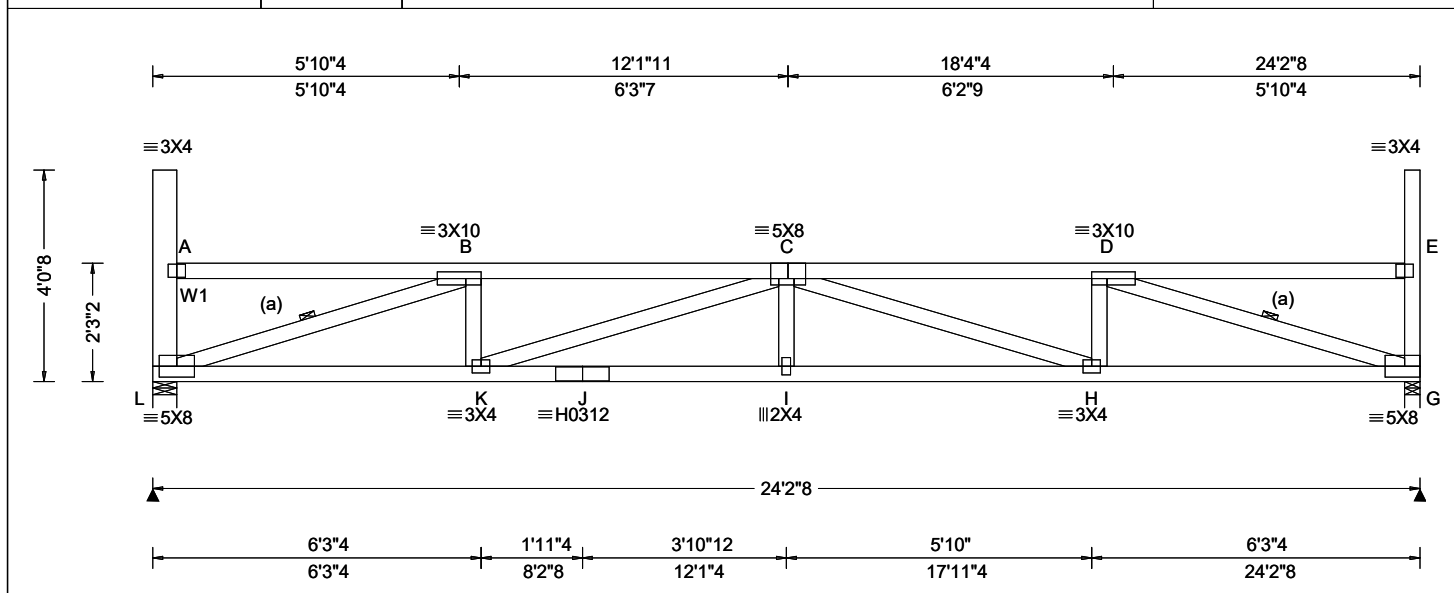
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Building 4

SEQN: 96191 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T21	Cust: R 9316 JRef: 1XdW93160007 T183 DrwNo: 075.22.1440.33730 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.93 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.235 I 999 360 VERT(CL): 0.451 I 643 240 HORZ(LL): 0.058 G - - HORZ(TL): 0.111 G - - Creep Factor: 2.0 Max TC CSI: 0.432 Max BC CSI: 0.844 Max Web CSI: 0.534 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 986 /- /- /495 /85 /134 G 997 /- /- /498 /87 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 211 -2485 C - D 211 -2491

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.22". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



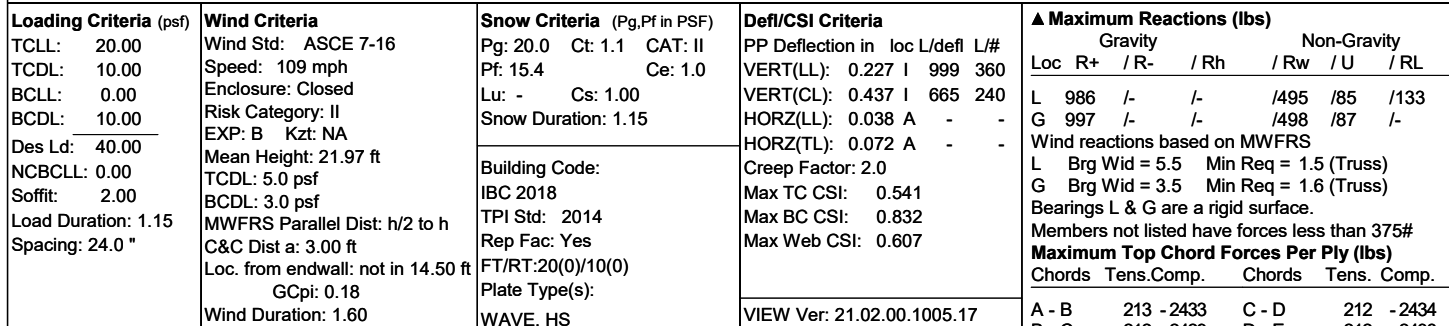
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SEQN: 96193 / FROM:	FLAT	Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T22	Cust: R 9316 JRef: 1XdW93160007 T174 DrwNo: 075.22.1440.32784 / NDW 03/16/2022
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Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

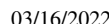
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.23" DL: 0.21". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	986	/-	/-	/495	/85	/133
G	997	/-	/-	/498	/87	/-

Wind reactions based on MWFRS
 L Brg Wid = 5.5 Min Req = 1.5 (Truss)
 G Brg Wid = 3.5 Min Req = 1.6 (Truss)
 Bearings L & G are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
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A	B	213	2433	C	D	213	2434
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A - B	213 - 2433	C - D	212 - 2434
B - C	212 - 2439	D - E	212 - 2438

[illegible]

K	L	3134	207	L	H	3134	207
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K - J	3134	-297	I - H	3134	-297
L - I	3134	207			

Webs	Tens.Comp.	Webs	Tens. Comp.
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
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52	52	52	52
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54	54	54	54
55	55	55	55
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85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

L	A	22	228	C	U	112	720
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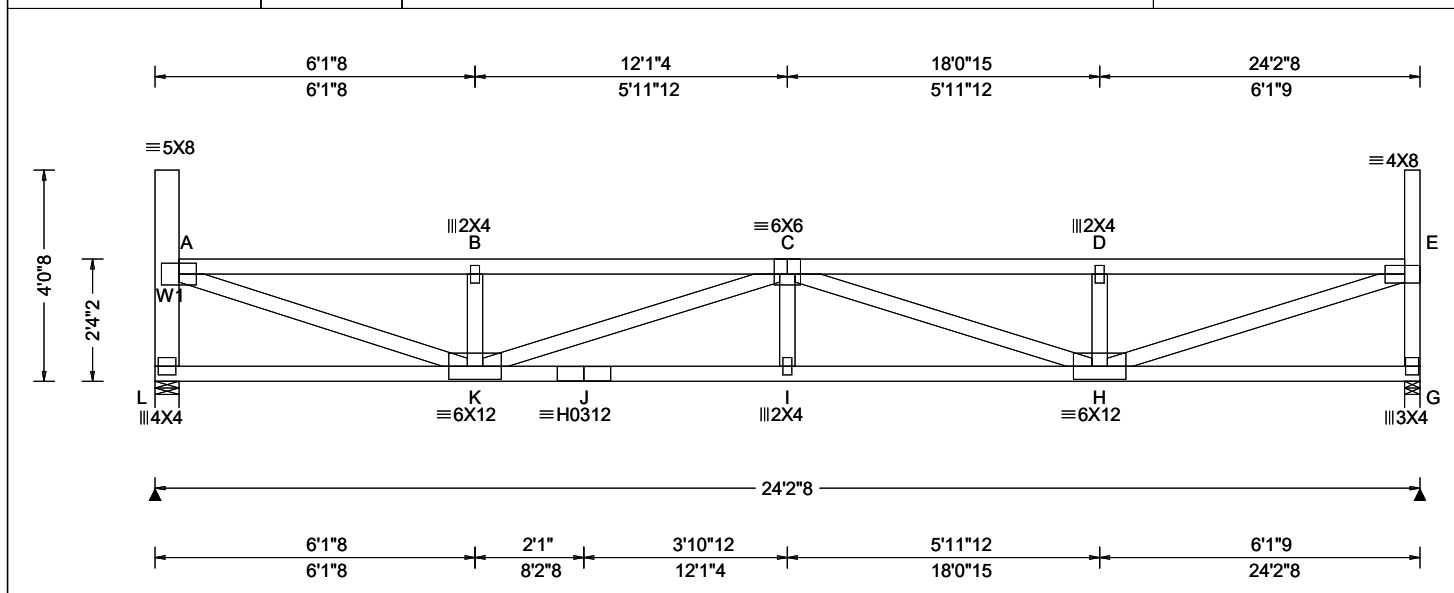
L - A	99	- 928	C - H	112	- 739
A - K	2435	235	H - E	2476	235

A - K	2435	-235	H - E	2476	-235
K - C	116	744	E - G	101	941

K - C 116 - 744 E - G 101 - 941

Building 4

SEQN: 96195 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T23	Cust: R 9316 JRef: 1XdW93160007 T184 DrwNo: 075.22.1440.31551 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.219 I 999 360 VERT(CL): 0.421 I 690 240 HORZ(LL): 0.037 A - - HORZ(TL): 0.071 A - - Creep Factor: 2.0 Max TC CSI: 0.532 Max BC CSI: 0.816 Max Web CSI: 0.598 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 988 - / - / 494 / 85 / 132 G 998 - / - / 498 / 87 / - Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 210 -2388 C - D 209 -2389 B - C 209 -2384 D - E 210 -2394

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.70 25.57 5.57
23.92 0.00 23.46 1.70 25.57 5.57
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.20". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



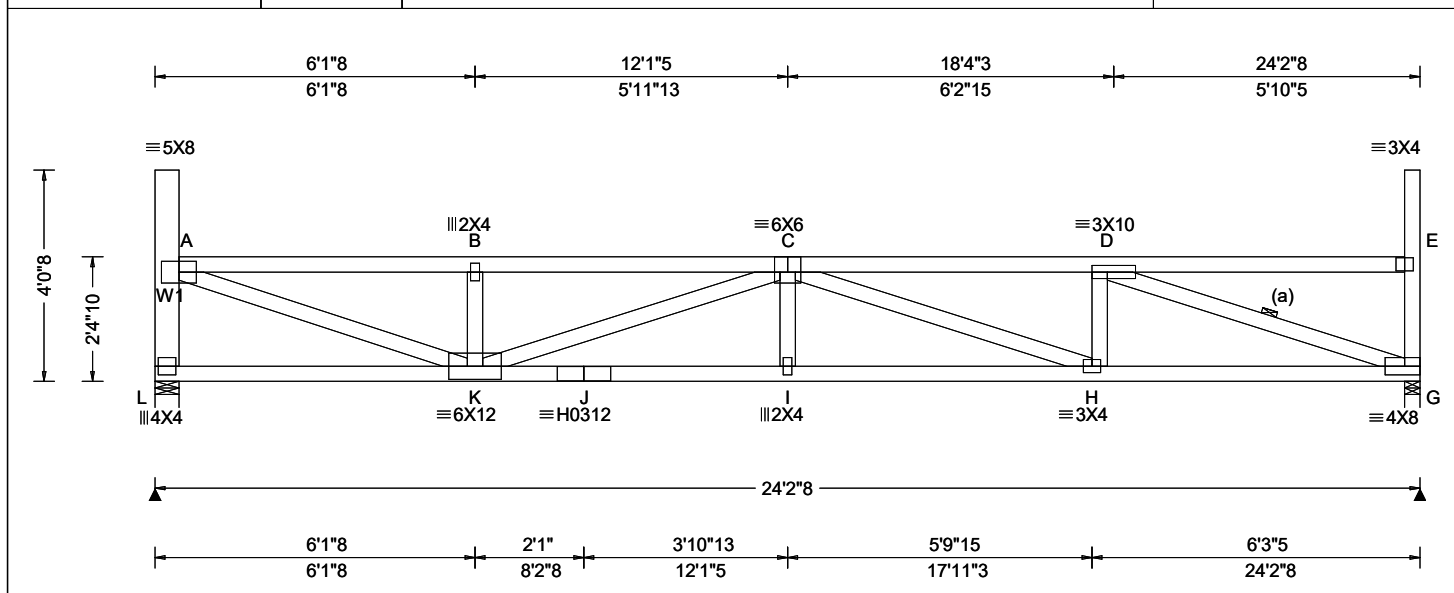
03/16/2022

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Building 4

SEQN: 96197 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T24	Cust: R 9316 JRef: 1XdW93160007 T176 DrwNo: 075.22.1440.34596 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.210 I 999 360 VERT(CL): 0.403 I 720 240 HORZ(LL): 0.043 G - - HORZ(TL): 0.083 G - - Creep Factor: 2.0 Max TC CSI: 0.510 Max BC CSI: 0.803 Max Web CSI: 0.577 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 988 - / - / - / 494 / 85 / 131 G 998 - / - / - / 498 / 87 / - Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 206 -2341 C - D 202 -2350 B - C 206 -2337

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

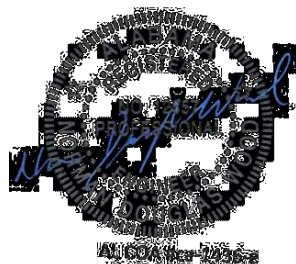
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.21" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



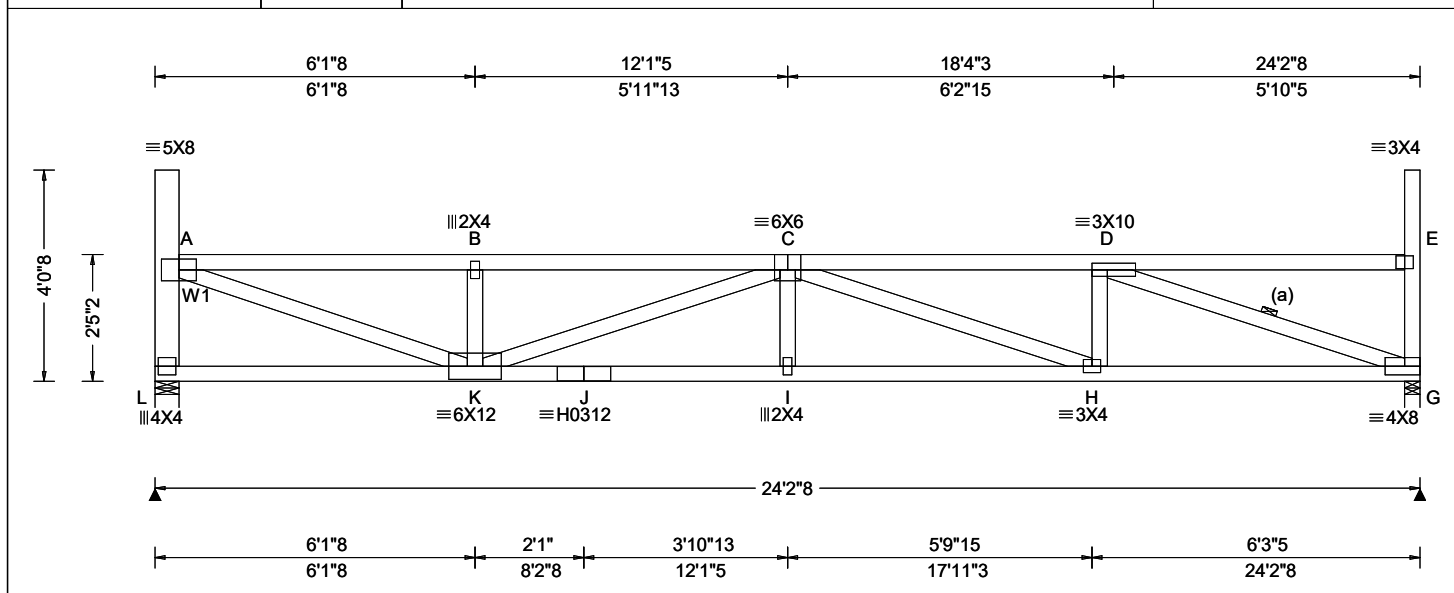
03/16/2022

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Building 4

SEQN: 96199 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T25	Cust: R 9316 JRef: 1XdW93160007 T172 DrwNo: 075.22.1440.29692 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.202 I 999 360 VERT(CL): 0.388 I 748 240 HORZ(LL): 0.042 G - - HORZ(TL): 0.081 G - - Creep Factor: 2.0 Max TC CSI: 0.487 Max BC CSI: 0.788 Max Web CSI: 0.567 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 988 - / - / - / 494 / 85 / 129 G 998 - / - / - / 498 / 87 / - Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 203 - 2296 C - D 199 - 2305 B - C 202 - 2292

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

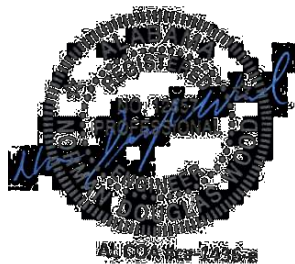
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

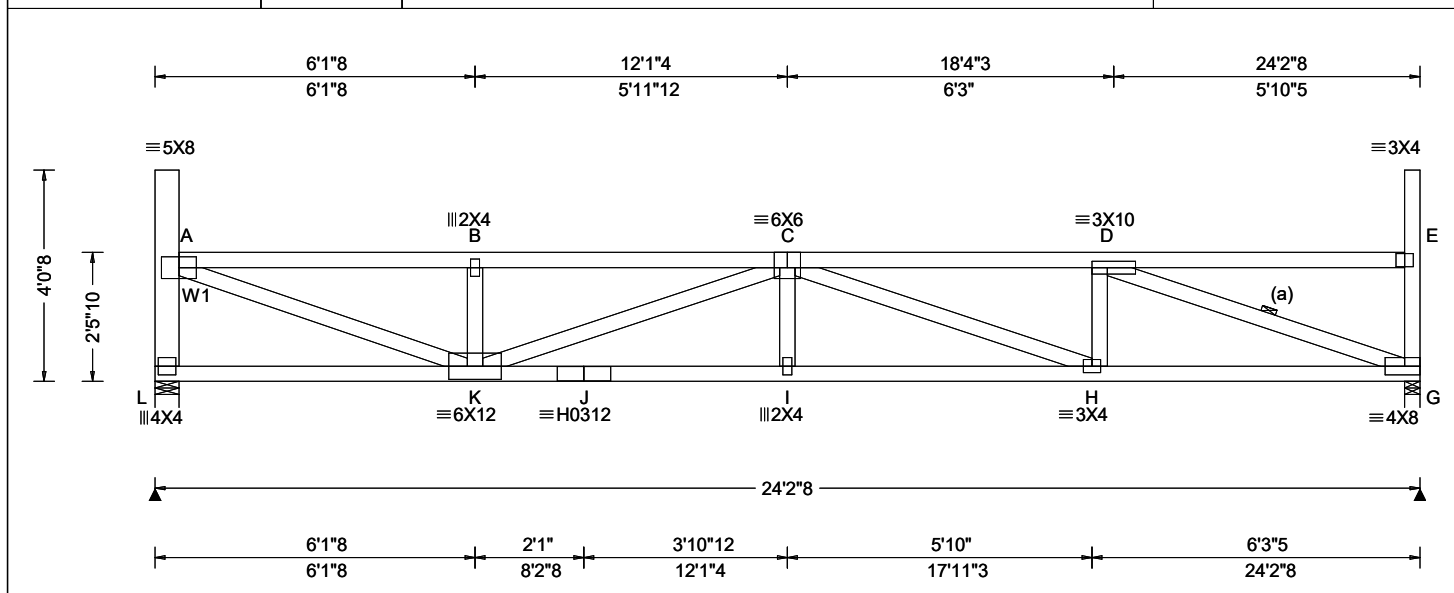
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Building 4

SEQN: 96201 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T26	Cust: R 9316 JRef: 1XdW93160007 T173 DrwNo: 075.22.1440.30017 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.195 I 999 360 VERT(CL): 0.374 I 776 240 HORZ(LL): 0.042 G - - HORZ(TL): 0.080 G - - Creep Factor: 2.0 Max TC CSI: 0.467 Max BC CSI: 0.773 Max Web CSI: 0.557 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 988 - / - / - /494 /86 /128 G 998 - / - / - /497 /88 - Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 199 -2253 C - D 195 -2262 B - C 199 -2249

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.19" DL: 0.18". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

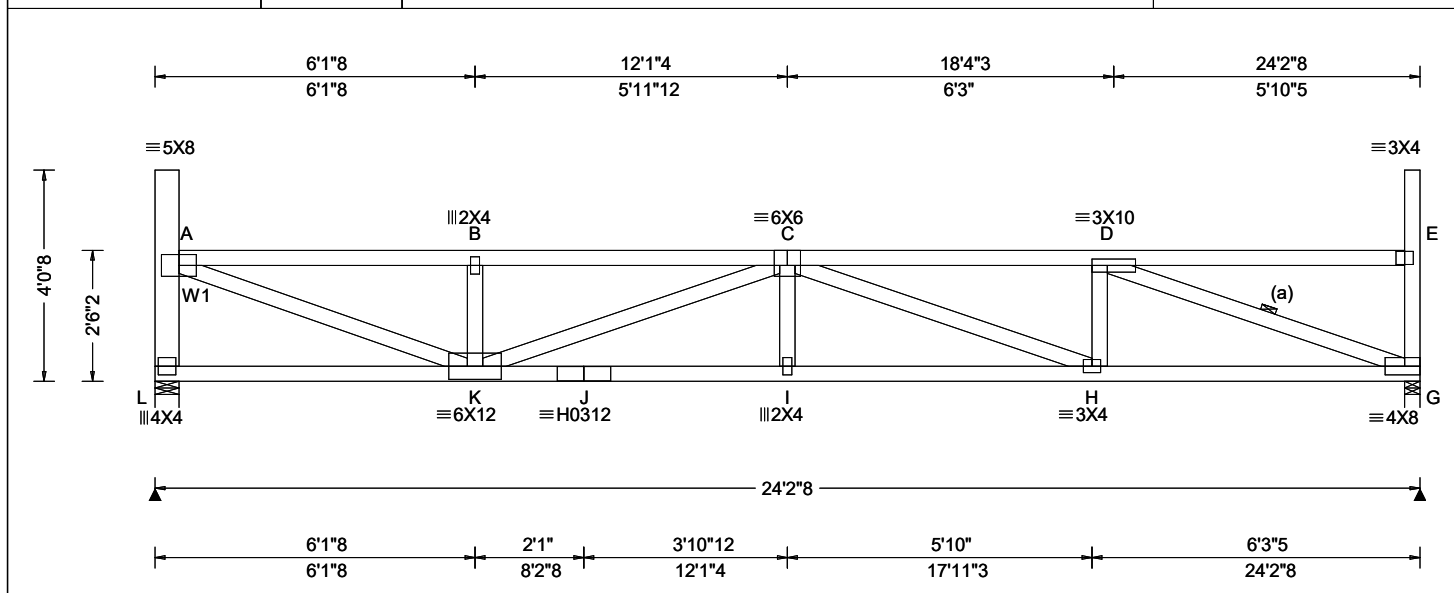
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Building 4

SEQN: 96203 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T27	Cust: R 9316 JRef: 1XdW93160007 T157 DrwNo: 075.22.1440.29507 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.18 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.188 I 999 360 VERT(CL): 0.361 I 804 240 HORZ(LL): 0.041 G - - HORZ(TL): 0.078 G - - Creep Factor: 2.0 Max TC CSI: 0.459 Max BC CSI: 0.759 Max Web CSI: 0.548 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 988 - / - / - / 494 / 86 / 127 G 998 - / - / - / 497 / 88 / - Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 196 - 2212 C - D 192 - 2220 B - C 196 - 2208

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.19" DL: 0.17". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

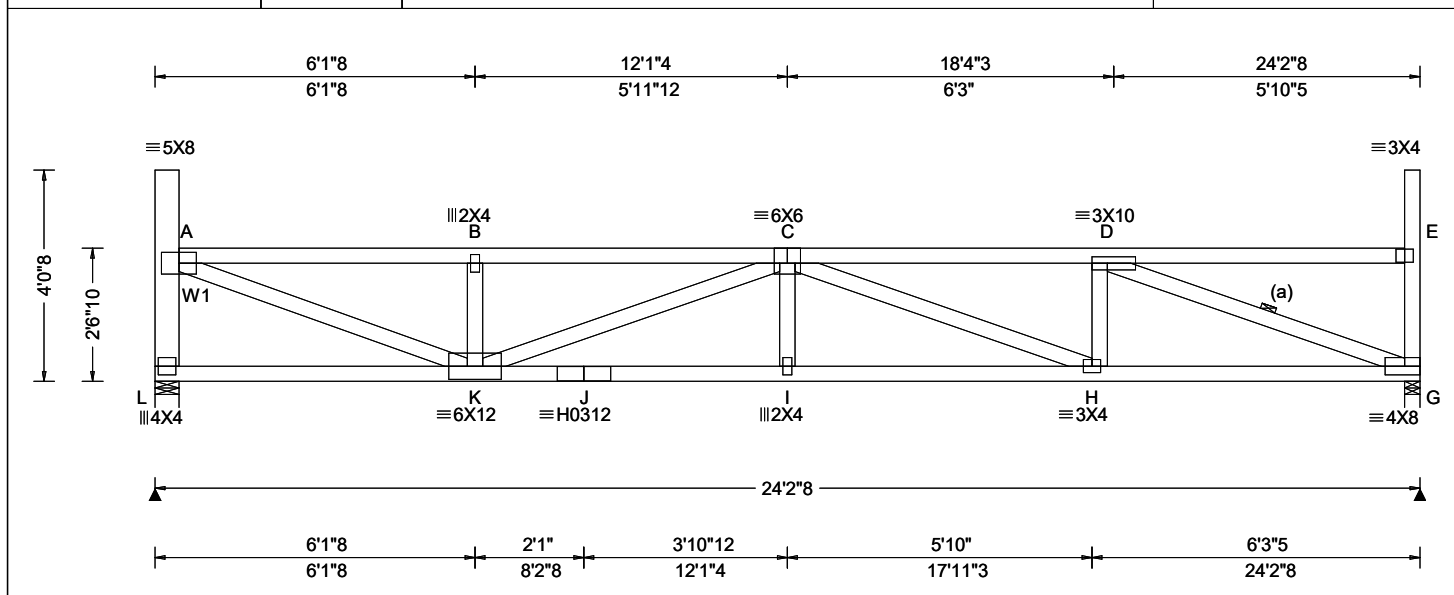


****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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Building 4

SEQN: 96205 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T28	Cust: R 9316 JRef: 1XdW93160007 T181 DrwNo: 075.22.1440.34610 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.181 I 999 360 VERT(CL): 0.349 I 833 240 HORZ(LL): 0.040 G - - HORZ(TL): 0.077 G - - Creep Factor: 2.0 Max TC CSI: 0.452 Max BC CSI: 0.746 Max Web CSI: 0.539 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 988 /- /- /494 /86 /126 G 998 /- /- /497 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 193 -2172 C - D 189 -2180 B - C 192 -2168

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

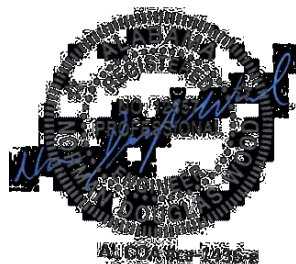
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.18" DL: 0.17". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



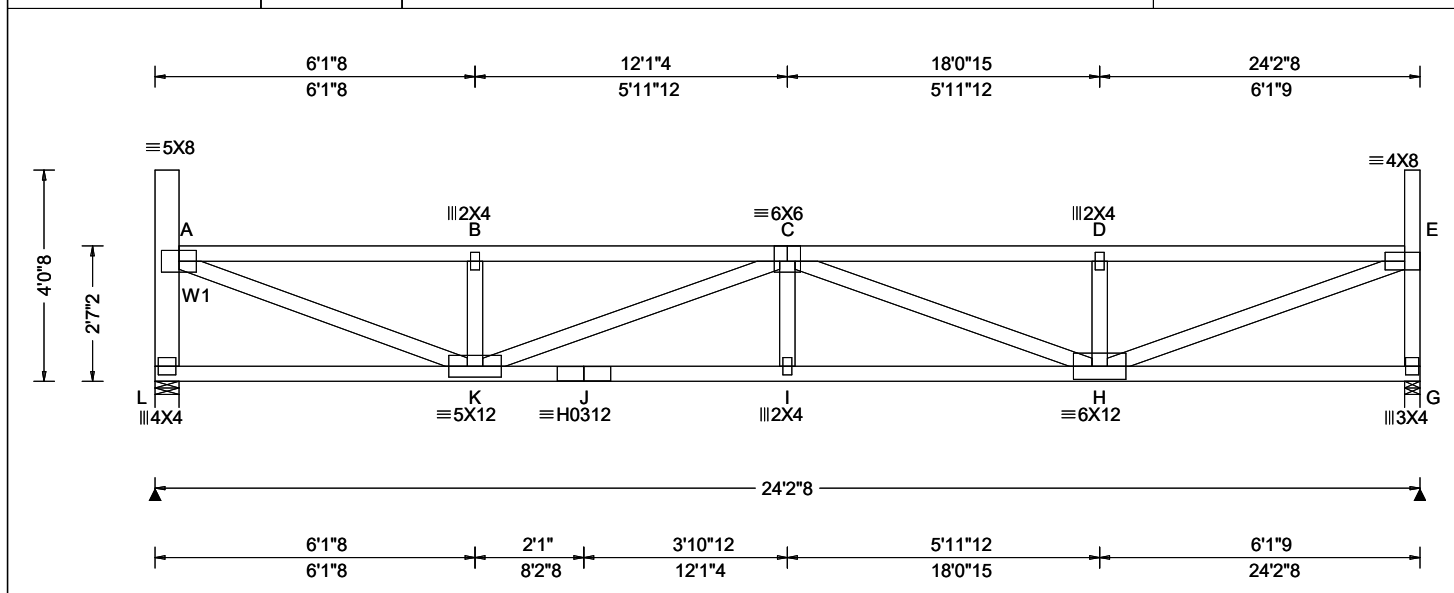
03/16/2022

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Building 4

SEQN: 96207 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T29	Cust: R 9316 JRef: 1XdW93160007 T182 DrwNo: 075.22.1440.30769 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.176 I 999 360 VERT(CL): 0.339 I 857 240 HORZ(LL): 0.033 A - - HORZ(TL): 0.064 A - - Creep Factor: 2.0 Max TC CSI: 0.464 Max BC CSI: 0.730 Max Web CSI: 0.540 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 988 -/- /- /494 /86 /125 G 998 -/- /- /497 /88 -/- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 190 -2134 C - D 189 -2135 B - C 190 -2130 D - E 190 -2139

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.45 17.27 4.16
23.92 0.00 23.46 1.45 17.27 4.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.18" DL: 0.16". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

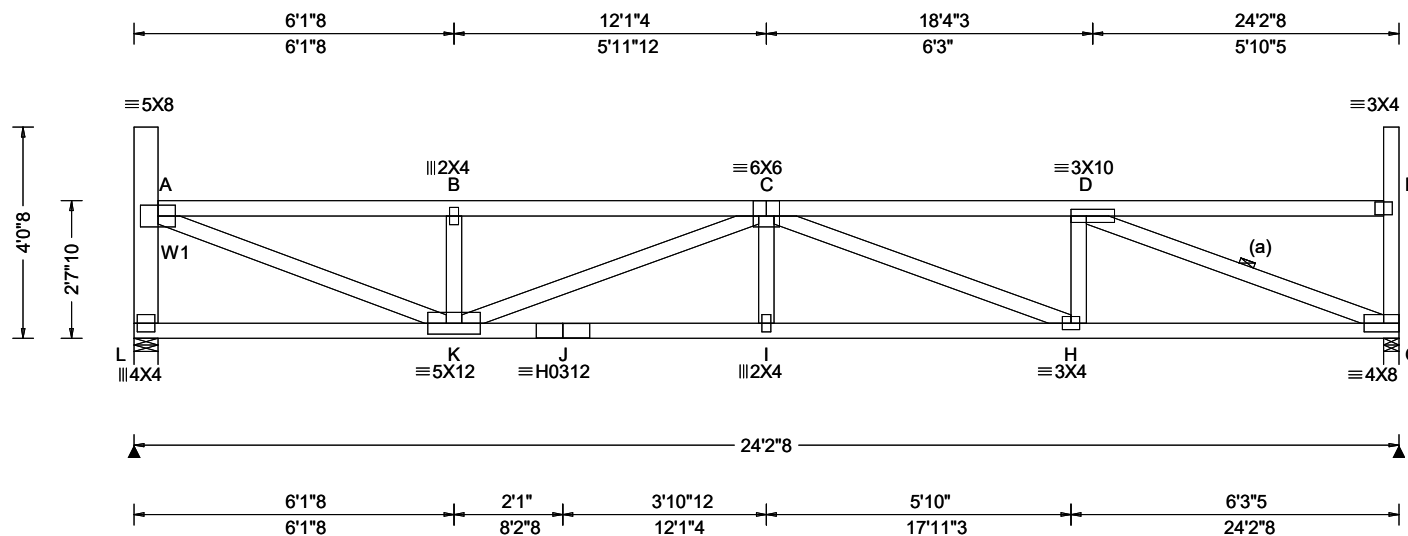
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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Building 4

SEQN: 96209 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T30	Cust: R 9316 JRef: 1XdW93160007 T178 DrwNo: 075.22.1440.33294 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.169 I 999 360 VERT(CL): 0.326 I 891 240 HORZ(LL): 0.039 G - - HORZ(TL): 0.074 G - - Creep Factor: 2.0 Max TC CSI: 0.447 Max BC CSI: 0.720 Max Web CSI: 0.523 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 988 /- /- /494 /86 /123 G 998 /- /- /497 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 187 -2096 C - D 183 -2104 B - C 187 -2092

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.17" DL: 0.16". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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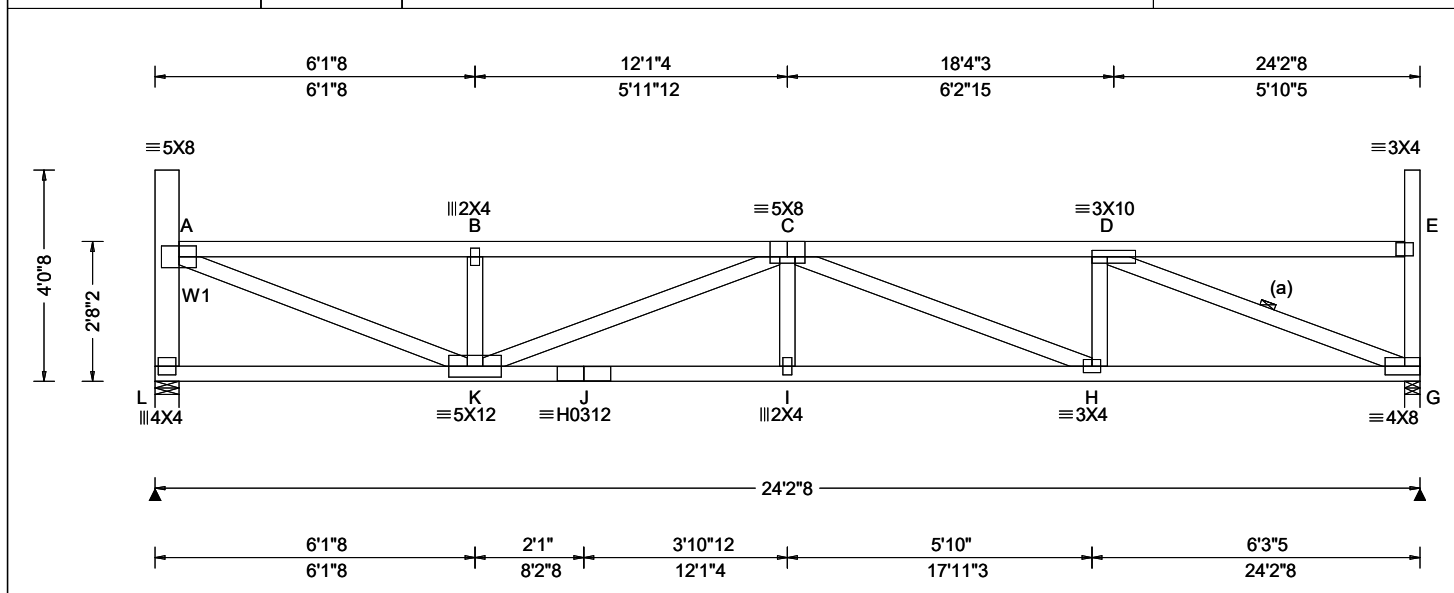
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Building 4

SEQN: 96211 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T31	Cust: R 9316 JRef: 1XdW93160007 T185 DrwNo: 075.22.1440.33943 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.164 I 999 360 VERT(CL): 0.315 I 921 240 HORZ(LL): 0.038 G - - HORZ(TL): 0.073 G - - Creep Factor: 2.0 Max TC CSI: 0.445 Max BC CSI: 0.708 Max Web CSI: 0.515 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 988 /- /- /494 /86 /122 G 998 /- /- /497 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 184 -2060 C - D 181 -2068 B - C 184 -2056

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.15". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



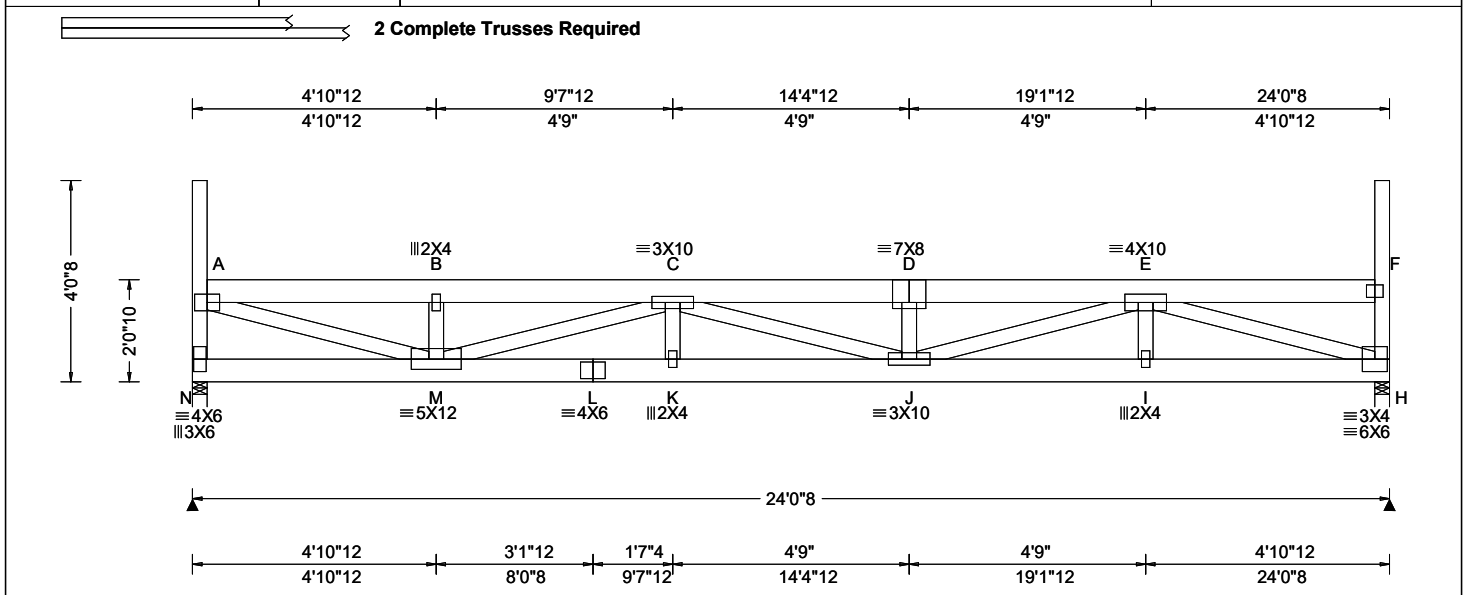
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Building 4

SEQN: 96213 / FROM:	FLAT Ply: 2 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T32	Cust: R 9316 JRef: 1XdW93160007 T159 DrwNo: 075.22.1440.30364 / NDW 03/16/2022
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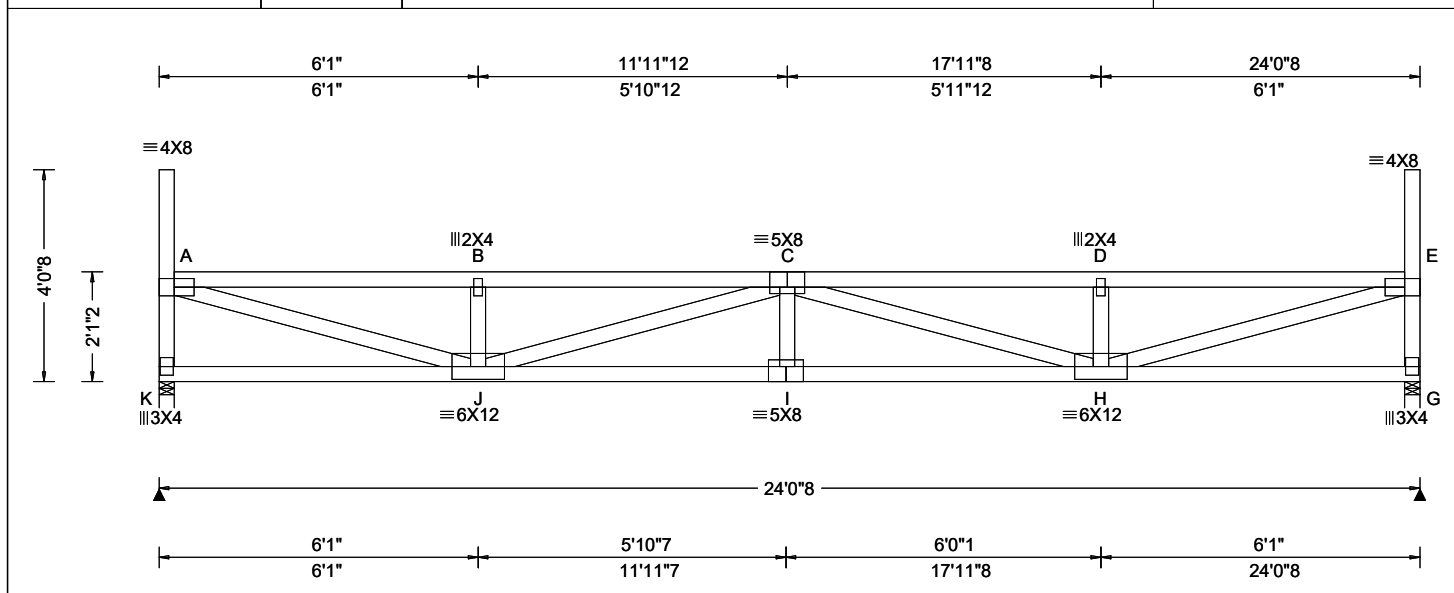
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.105 D 999 360 VERT(CL): 0.212 D 999 240 HORZ(LL): 0.016 H - - HORZ(TL): 0.032 H - - Creep Factor: 2.0 Max TC CSI: 0.077 Max BC CSI: 0.287 Max Web CSI: 0.395 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 1089 -/- /- /388 -/ H 1096 -/- /- /373 -/ Wind reactions based on MWFRS N Brg Wid = 3.5 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 511 -1404 C - D 747 -2055 B - C 510 -1401 D - E 747 -2055

Lumber Top chord: 2x6 SPF 1650f-1.5E; Bot chord: 2x6 SPF 1650f-1.5E; Webs: 2x4 SPF #1/#2;	Wind Wind loads and reactions based on MWFRS. End verticals exposed to wind pressure. Deflection meets L/360.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 2054 -748 J - I 1398 -504 L - K 2054 -748 I - H 1398 -504 K - J 2054 -748
Nailnote Nail Schedule: 0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @12.00" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.	Additional Notes Truss must be installed as shown with top chord up.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - A 176 -492 J - E 693 -256 A - M 1415 -516 E - H 524 -1451 M - C 251 -689
Special Loads ---(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 30 plf at 0.29 to 30 plf at 23.75 BC: From 10 plf at 0.00 to 10 plf at 21.90 BC: From 20 plf at 21.90 to 20 plf at 24.04 BC: 111 lb Conc. Load at 1.90, 3.90, 5.90, 7.90, 9.90, 11.90, 13.90, 15.90, 17.90, 19.90, 21.90		

Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.99 34.38 4.14 23.75 0.00 23.46 1.99 34.38 4.14 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Purlins The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.	
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCEA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCEA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	03/16/2022	

Building 4

SEQN: 96215 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T33	Cust: R 9316 JRef: 1XdW93160007 T191 DrwNo: 075.22.1440.30443 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.76 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.249 I 999 360 VERT(CL): 0.502 I 575 240 HORZ(LL): 0.037 A - - HORZ(TL): 0.074 A - - Creep Factor: 2.0 Max TC CSI: 0.584 Max BC CSI: 0.873 Max Web CSI: 0.631 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 944 /- /- /495 /86 /139 G 944 /- /- /495 /86 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 255 -2549 C - D 255 -2548 B - C 255 -2545 D - E 256 -2552

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.25". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.

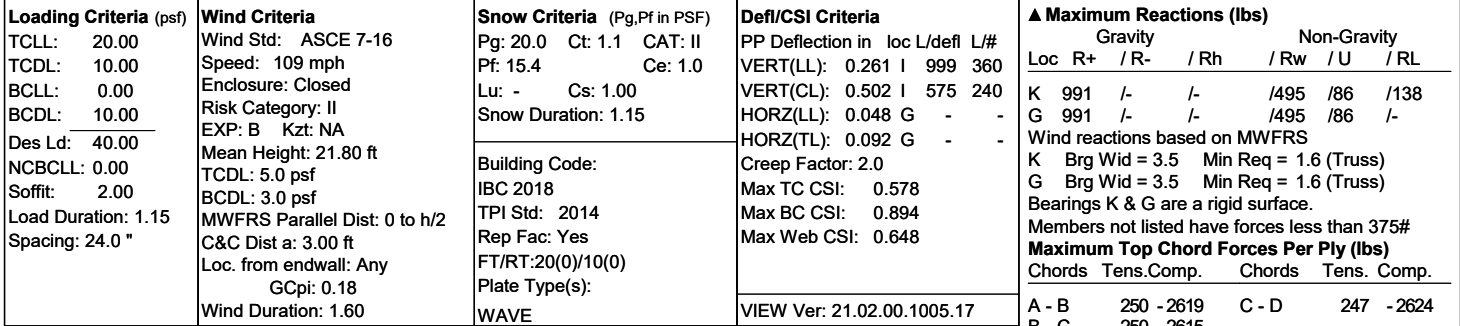


03/16/2022

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AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96217 /	FLAT	Ply: 1	Job Number: JB-220684	Cust: R 9316 JRef:1XdW93160007 T200
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 075.22.1440.32994
			Truss Label: T34	/ NDW 03/16/2022



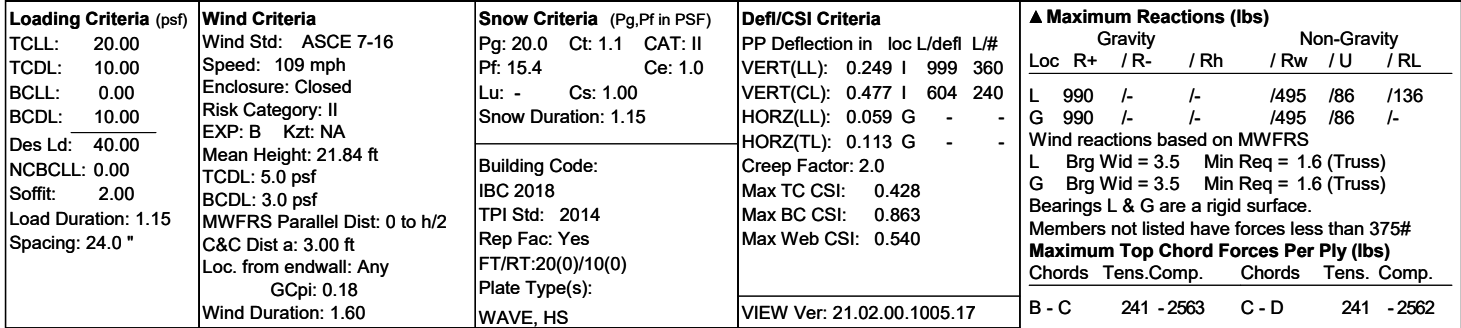
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

(a) Continuous lateral restraint equally spaced on member.

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

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SEQN: 96219 /	FLAT	Ply: 1	Job Number: JB-220684	Cust: R 9316 JRef:1XdW93160007 T205
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 075.22.1440.32777
			Truss Label: T35	/ NDW 03/16/2022



Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

(a) Continuous lateral restraint equally spaced on member

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

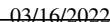
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.25" DL: 0.23". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L 990	/-		/-	/495	/86	/136
G 990	/-	/-	/-	/495	/86	/-

Wind reactions based on MWFRS

L Brg Wid = 3.5 Min Req = 1.6 (Truss)
 G Brg Wid = 3.5 Min Req = 1.6 (Truss)

Bearings L & G are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

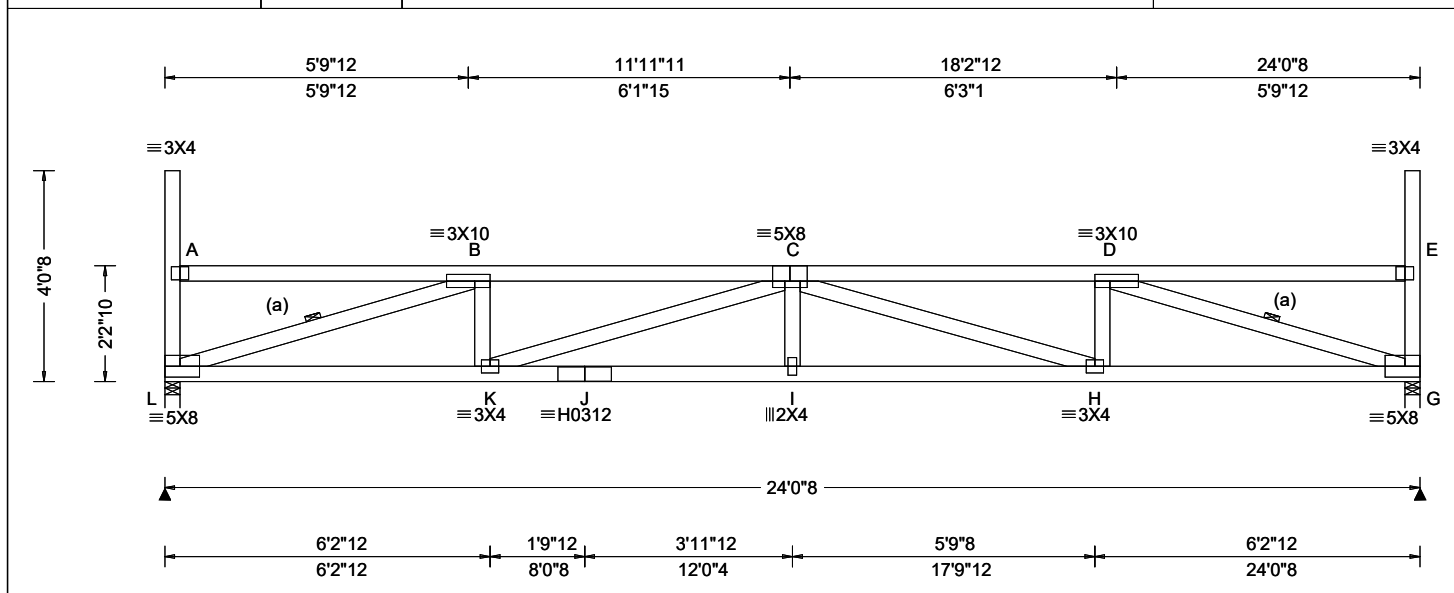
Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	241 -2563	C - D	241 -2562

Chords	Tens.Comp.	Chords	Tens. Comp.
L - K	2506 - 352	I - H	3294 - 309
K - J	3294 - 309	H - G	2505 - 209
J - I	3294 - 309		

Webs	Tens.Comp.	Webs	Tens. Comp.
L - B	241 - 2591	C - H	134 - 770
K - C	136 - 769	D - G	241 - 2591

Building 4

SEQN: 96221 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T36	Cust: R 9316 JRef: 1XdW93160007 T213 DrwNo: 075.22.1440.30297 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.89 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.238 I 999 360 VERT(CL): 0.458 I 630 240 HORZ(LL): 0.058 G - - HORZ(TL): 0.111 G - - Creep Factor: 2.0 Max TC CSI: 0.427 Max BC CSI: 0.845 Max Web CSI: 0.531 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 990 /- /- /495 /86 /135 G 990 /- /- /495 /86 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 236 -2509 C - D 236 -2508

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

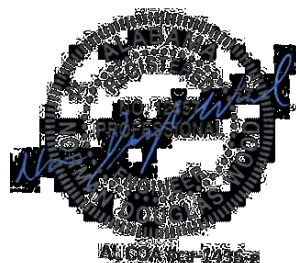
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.22". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



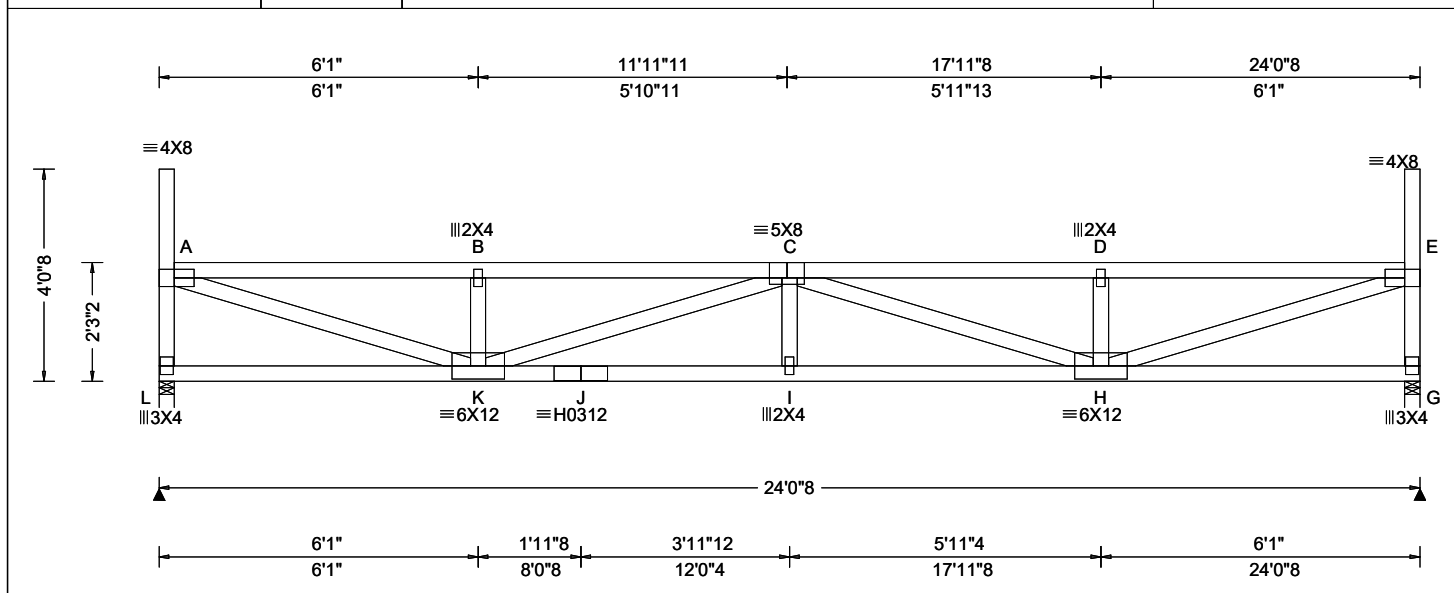
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Building 4

SEQN: 96223 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T37	Cust: R 9316 JRef: 1XdW93160007 T204 DrwNo: 075.22.1440.31474 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.93 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.231 I 999 360 VERT(CL): 0.444 I 649 240 HORZ(LL): 0.037 A - - HORZ(TL): 0.071 A - - Creep Factor: 2.0 Max TC CSI: 0.542 Max BC CSI: 0.832 Max Web CSI: 0.611 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 990 /- /- /495 /86 /134 G 990 /- /- /495 /86 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 214 -2454 C - D 212 -2449 B - C 213 -2450 D - E 213 -2454

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.21". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.



03/16/2022

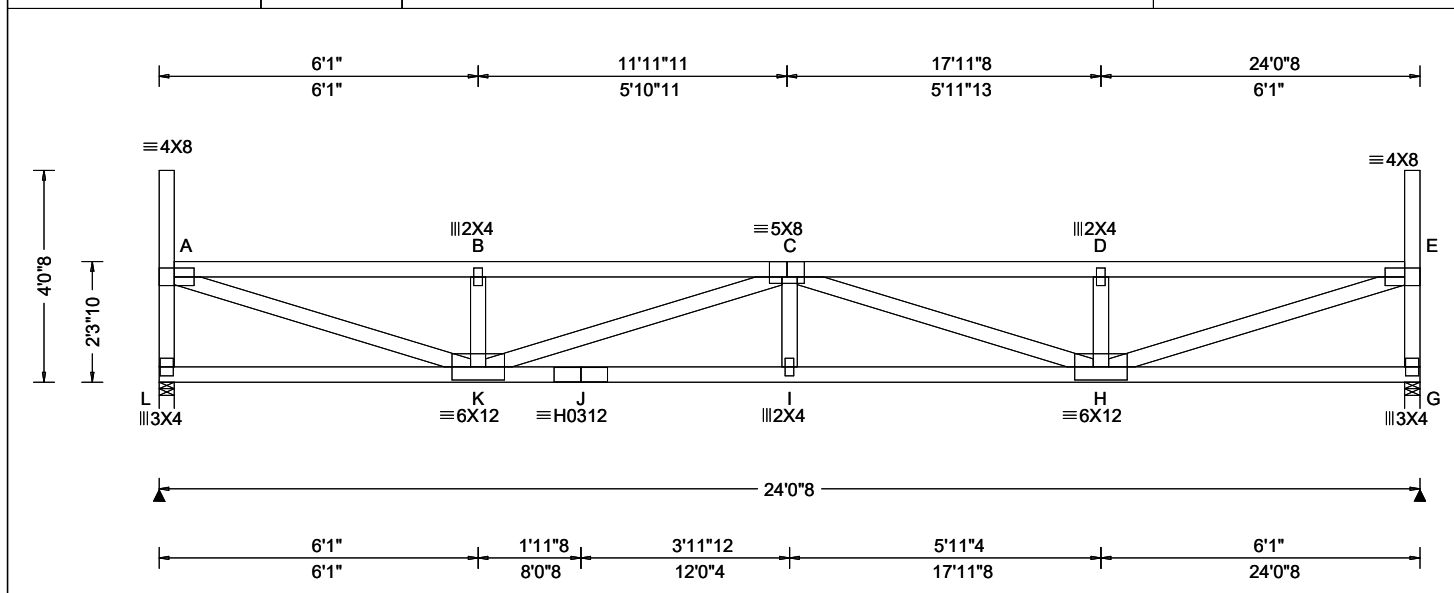
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514 Earth City Expressway
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Building 4

SEQN: 96225 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T38	Cust: R 9316 JRef: 1XdW93160007 T209 DrwNo: 075.22.1440.32697 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.97 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.222 I 999 360 VERT(CL): 0.427 I 676 240 HORZ(LL): 0.037 A - - HORZ(TL): 0.070 A - - Creep Factor: 2.0 Max TC CSI: 0.532 Max BC CSI: 0.815 Max Web CSI: 0.599 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 990 /- /- /495 /86 /133 G 990 /- /- /495 /86 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 210 -2404 C - D 209 -2400 B - C 209 -2400 D - E 209 -2404

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.74 26.95 5.28
23.75 0.00 23.46 1.74 26.95 5.28
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

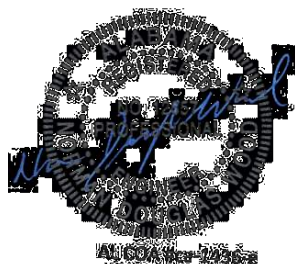
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.20". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



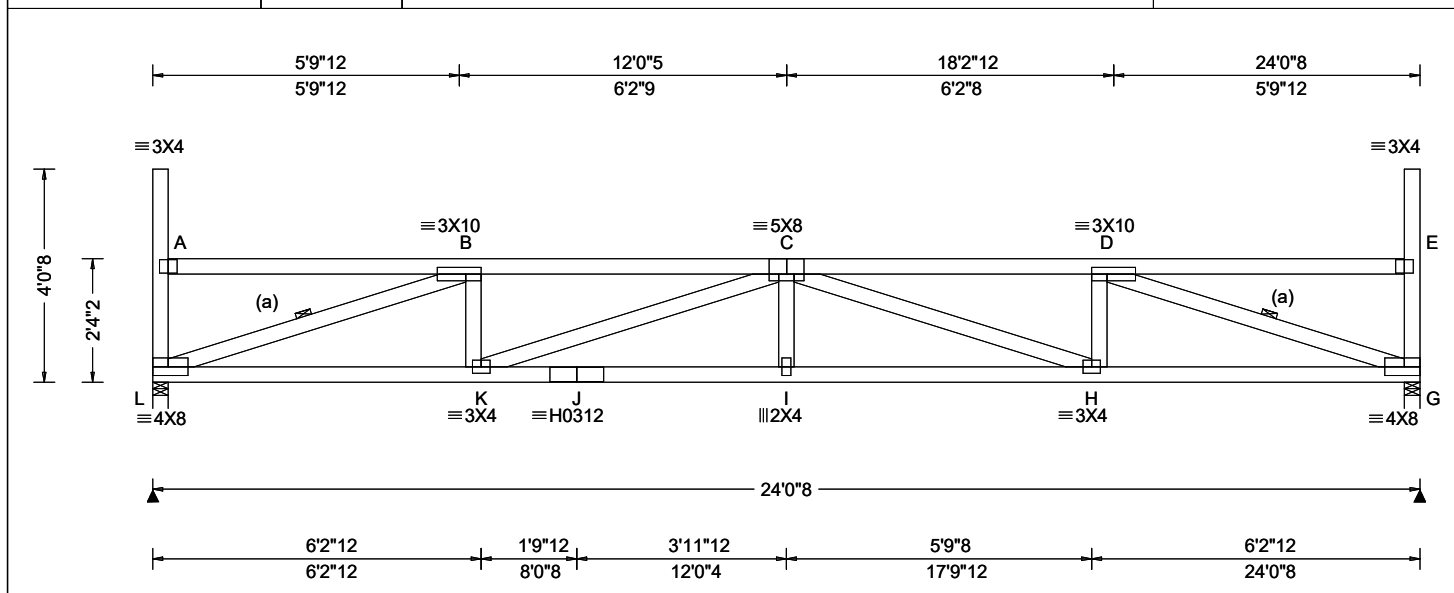
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Building 4

SEQN: 96227 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T39	Cust: R 9316 JRef: 1XdW93160007 T199 DrwNo: 075.22.1440.31063 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.212 I 999 360 VERT(CL): 0.407 I 708 240 HORZ(LL): 0.055 G - - HORZ(TL): 0.105 G - - Creep Factor: 2.0 Max TC CSI: 0.424 Max BC CSI: 0.796 Max Web CSI: 0.508 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 991 /- /- /495 /87 /132 G 991 /- /- /495 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 202 -2363 C - D 203 -2363

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

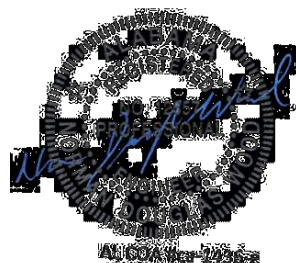
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.21" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



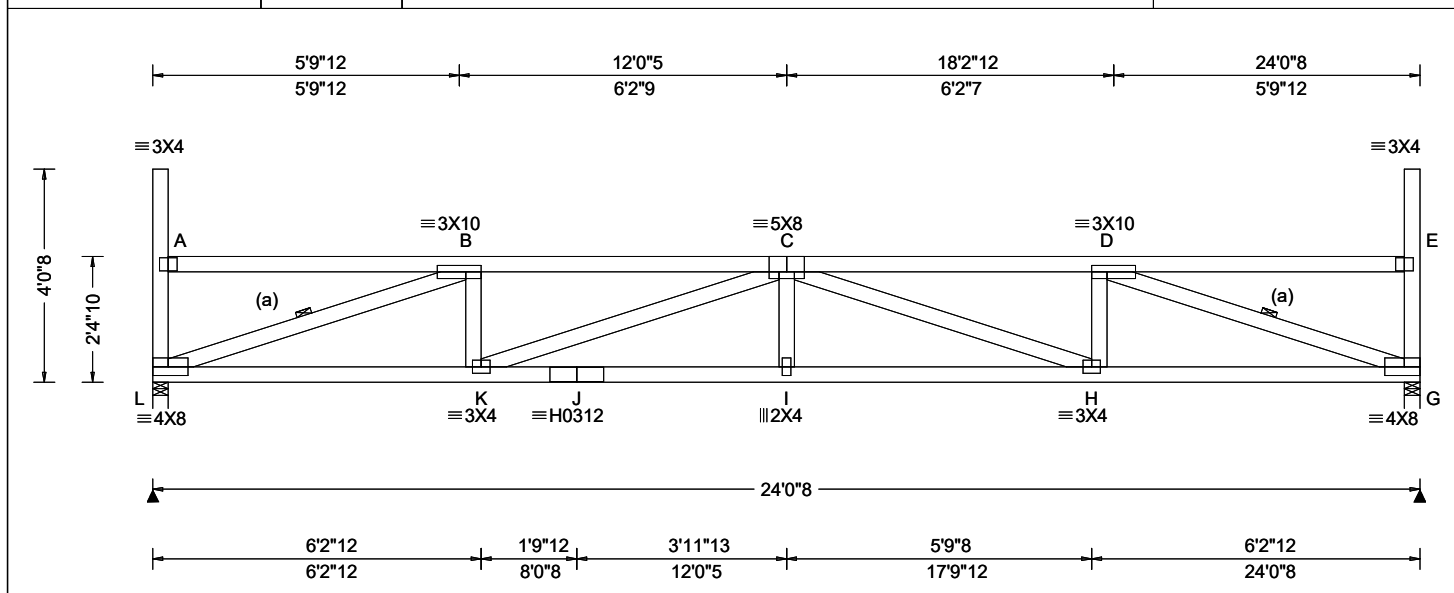
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Building 4

SEQN: 96229 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T40	Cust: R 9316 JRef: 1XdW93160007 T211 DrwNo: 075.22.1440.29980 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.204 I 999 360 VERT(CL): 0.392 I 735 240 HORZ(LL): 0.053 G - - HORZ(TL): 0.103 G - - Creep Factor: 2.0 Max TC CSI: 0.423 Max BC CSI: 0.780 Max Web CSI: 0.500 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 991 /- /- /494 /87 /131 G 991 /- /- /494 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -2318 C - D 199 -2317

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

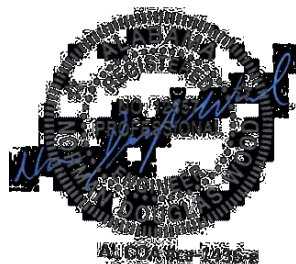
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



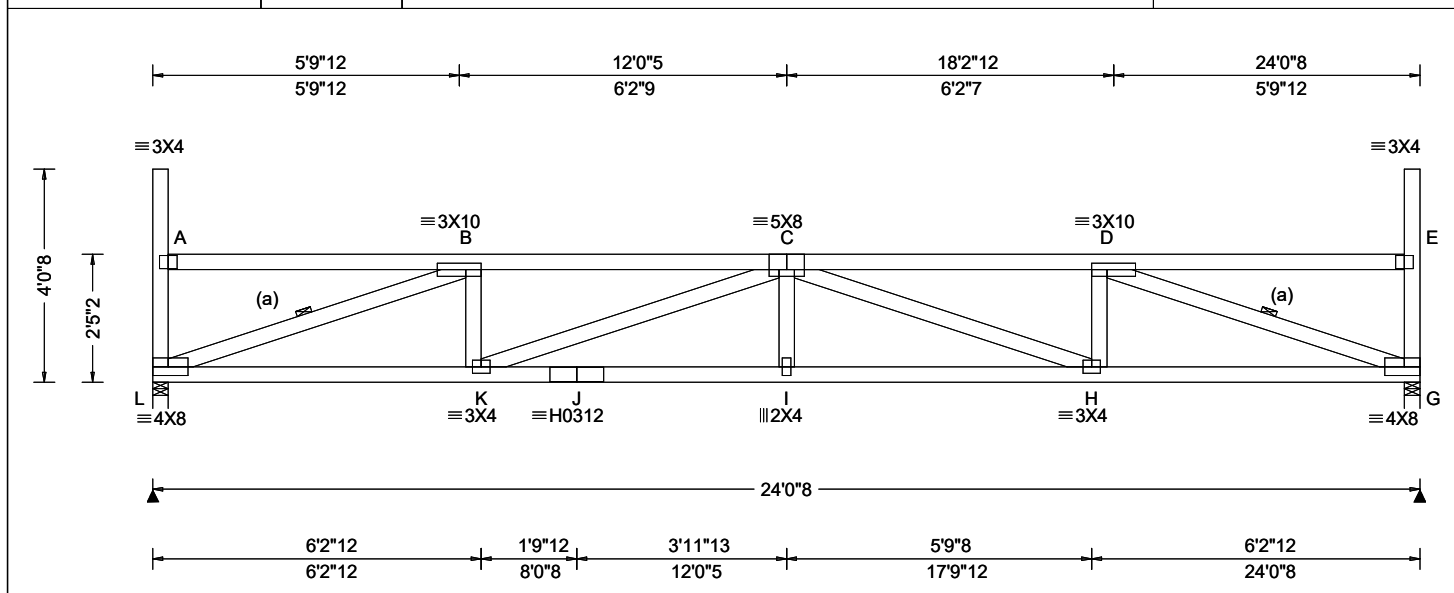
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Building 4

SEQN: 96231 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T41	Cust: R 9316 JRef: 1XdW93160007 T201 DrwNo: 075.22.1440.34961 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.197 I 999 360 VERT(CL): 0.378 I 763 240 HORZ(LL): 0.052 G - - HORZ(TL): 0.101 G - - Creep Factor: 2.0 Max TC CSI: 0.422 Max BC CSI: 0.764 Max Web CSI: 0.493 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 991 /- /- /494 /87 /129 G 991 /- /- /494 /87 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 196 -2273 C - D 196 -2273

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.18". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

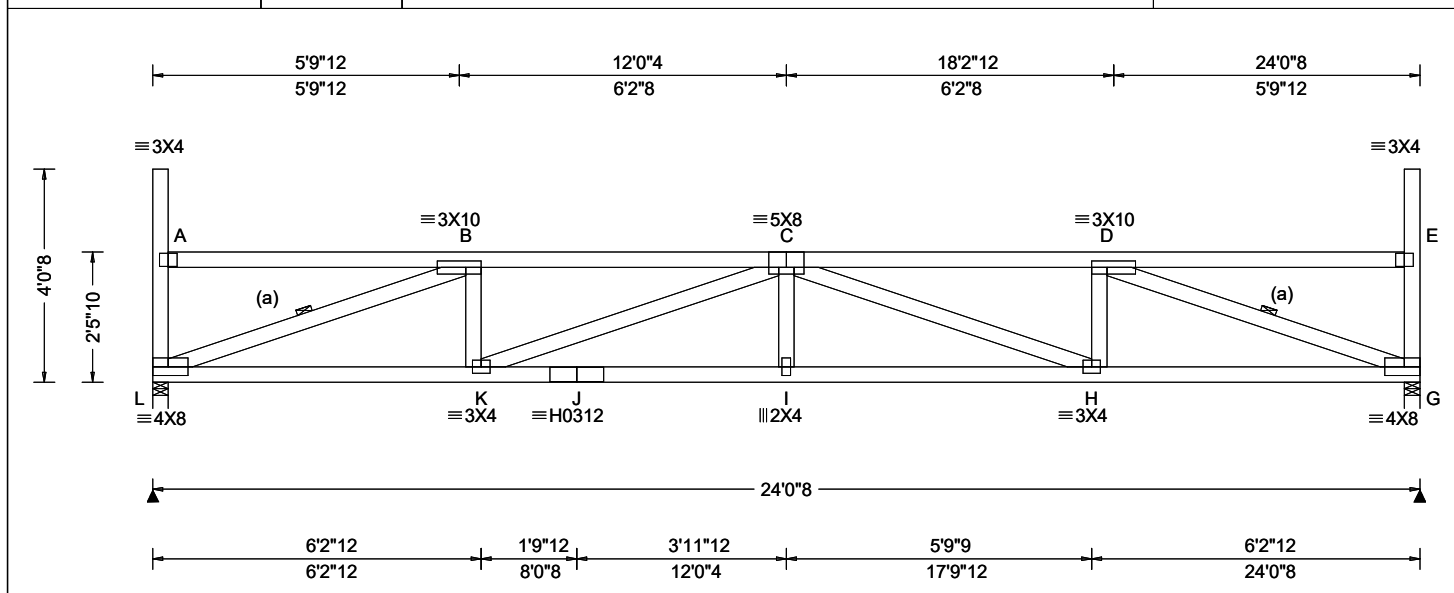


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Building 4

SEQN: 96233 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T42	Cust: R 9316 JRef: 1XdW93160007 T195 DrwNo: 075.22.1440.29211 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.190 I 999 360 VERT(CL): 0.364 I 791 240 HORZ(LL): 0.051 G - - HORZ(TL): 0.099 G - - Creep Factor: 2.0 Max TC CSI: 0.421 Max BC CSI: 0.750 Max Web CSI: 0.486 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 991 /- /- /494 /87 /128 G 991 /- /- /494 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 192 -2231 C - D 193 -2230

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

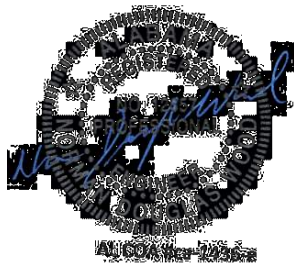
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.19" DL: 0.17". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



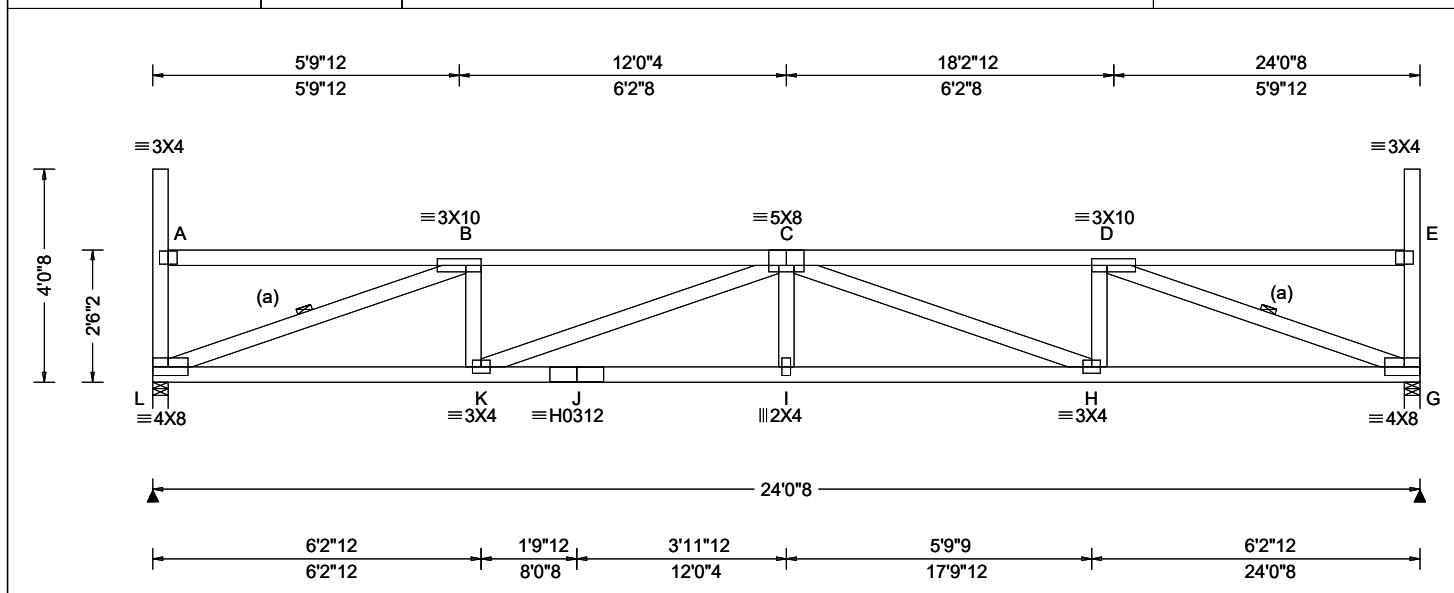
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Building 4

SEQN: 96235 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T43	Cust: R 9316 JRef: 1XdW93160007 T198 DrwNo: 075.22.1440.33902 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.18 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.183 I 999 360 VERT(CL): 0.352 I 820 240 HORZ(LL): 0.050 G - - HORZ(TL): 0.097 G - - Creep Factor: 2.0 Max TC CSI: 0.420 Max BC CSI: 0.736 Max Web CSI: 0.480 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 991 /- /- /494 /87 /127 G 991 /- /- /494 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 212 -2190 C - D 212 -2189

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.18" DL: 0.17". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



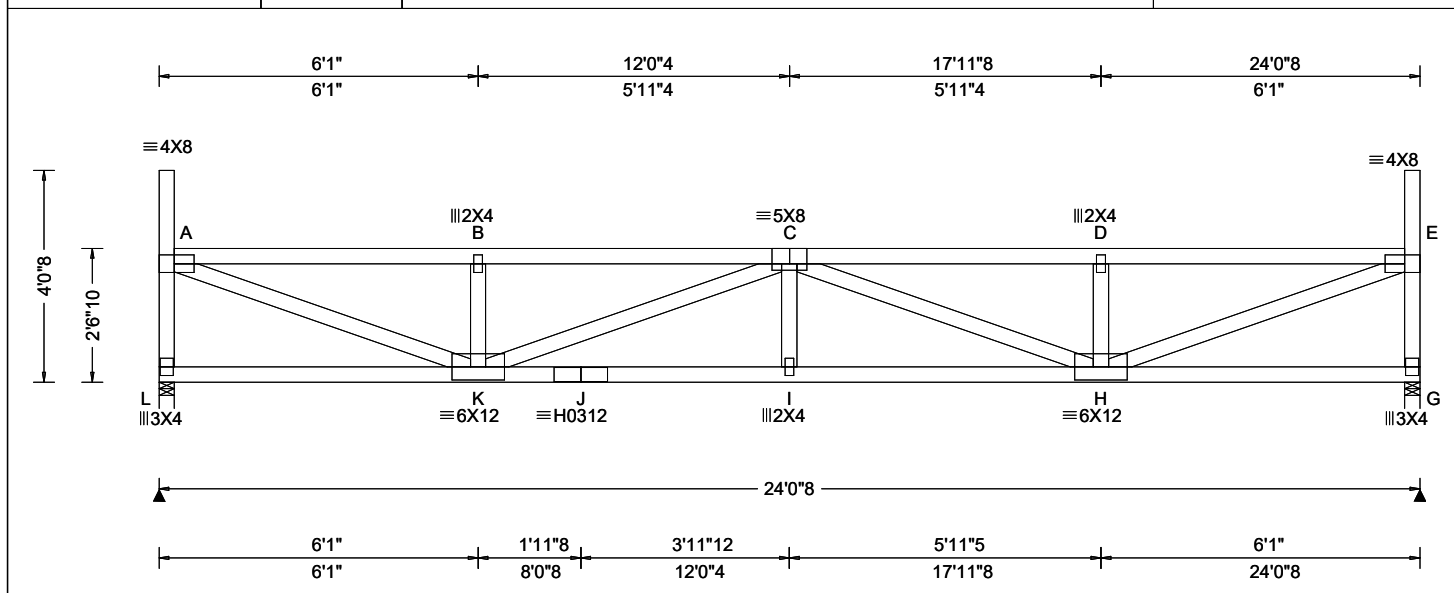
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514 Earth City Expressway
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Building 4

SEQN: 96237 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T44	Cust: R 9316 JRef: 1XdW93160007 T202 DrwNo: 075.22.1440.35317 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.179 I 999 360 VERT(CL): 0.343 I 841 240 HORZ(LL): 0.033 A - - HORZ(TL): 0.063 A - - Creep Factor: 2.0 Max TC CSI: 0.459 Max BC CSI: 0.728 Max Web CSI: 0.542 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 991 /- /- /494 /87 /126 G 991 /- /- /494 /87 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 212 -2148 C - D 211 -2143 B - C 211 -2144 D - E 212 -2147

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

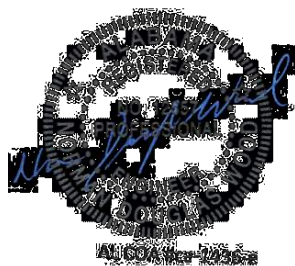
Deflection

Max JT VERT DEFL: LL: 0.18" DL: 0.16". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.



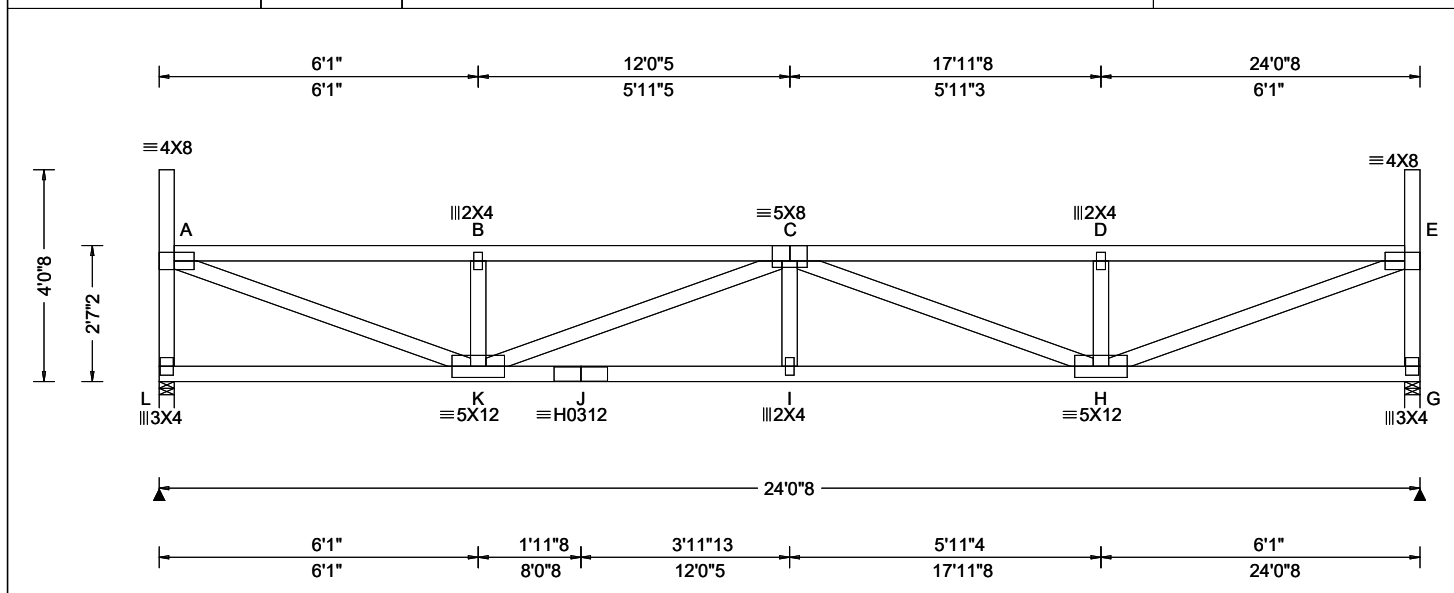
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Building 4

SEQN: 96239 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T45	Cust: R 9316 JRef: 1XdW93160007 T196 DrwNo: 075.22.1440.31869 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.173 I 999 360 VERT(CL): 0.331 I 870 240 HORZ(LL): 0.032 A - - HORZ(TL): 0.062 A - - Creep Factor: 2.0 Max TC CSI: 0.453 Max BC CSI: 0.714 Max Web CSI: 0.533 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 991 /- /- /494 /87 /125 G 991 /- /- /494 /87 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 209 -2110 C - D 208 -2105 B - C 208 -2106 D - E 209 -2109

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.17" DL: 0.16". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.



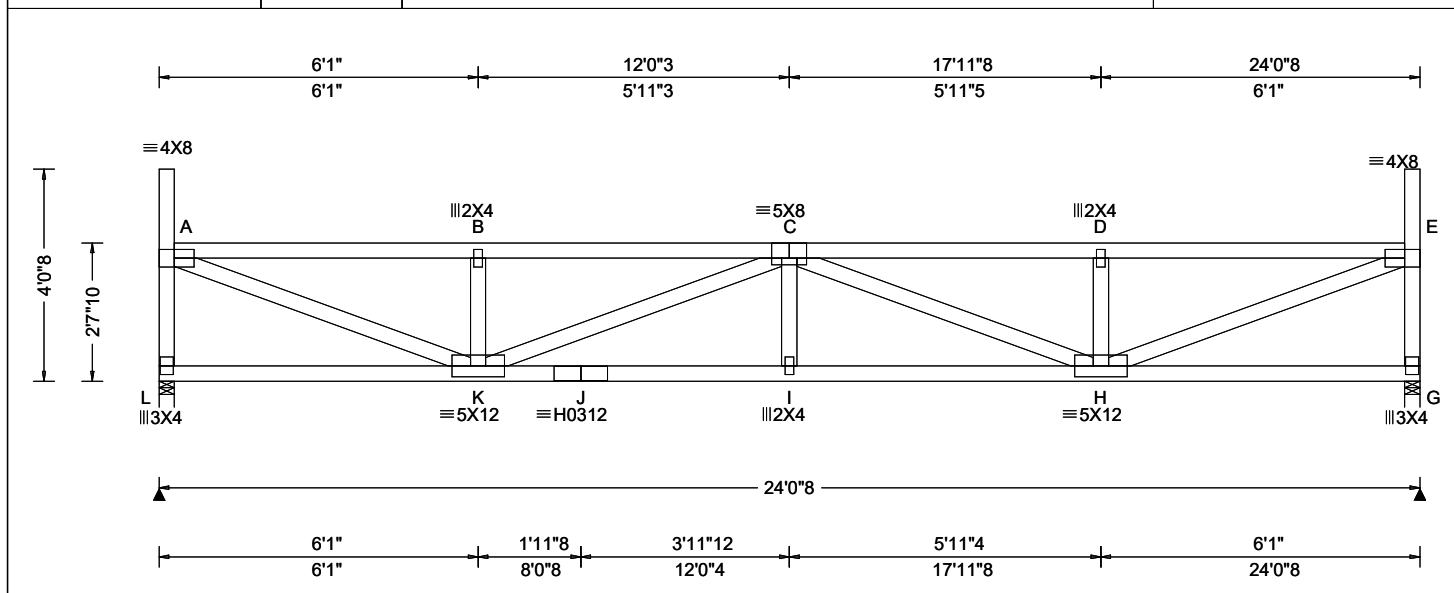
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Building 4

SEQN: 96241 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T46	Cust: R 9316 JRef: 1XdW93160007 T207 DrwNo: 075.22.1440.30934 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.167 I 999 360 VERT(CL): 0.321 I 900 240 HORZ(LL): 0.032 A - - HORZ(TL): 0.061 A - - Creep Factor: 2.0 Max TC CSI: 0.450 Max BC CSI: 0.703 Max Web CSI: 0.525 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 991 /- /- /494 /88 /123 G 991 /- /- /494 /88 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 206 -2073 C - D 205 -2069 B - C 205 -2069 D - E 206 -2073

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.41 15.89 3.83
23.75 0.00 23.46 1.41 15.89 3.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.17" DL: 0.15". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



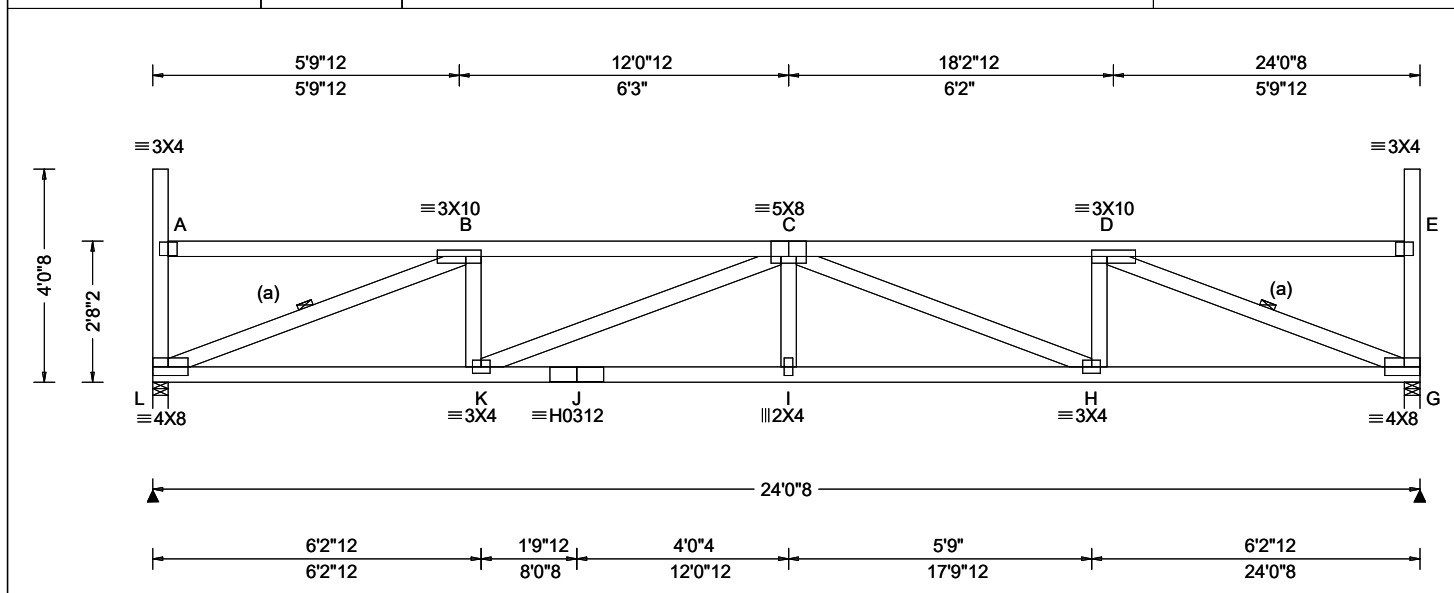
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Building 4

SEQN: 96243 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T47	Cust: R 9316 JRef: 1XdW93160007 T203 DrwNo: 075.22.1440.31548 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.160 I 999 360 VERT(CL): 0.307 I 939 240 HORZ(LL): 0.047 G - - HORZ(TL): 0.090 G - - Creep Factor: 2.0 Max TC CSI: 0.421 Max BC CSI: 0.692 Max Web CSI: 0.457 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 991 /- /- /494 /88 /122 G 991 /- /- /494 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 200 -2040 C - D 199 -2038

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.15". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Snow loading based on an unobstructed roof. Complete drainage required.

Truss must be installed as shown with top chord up.



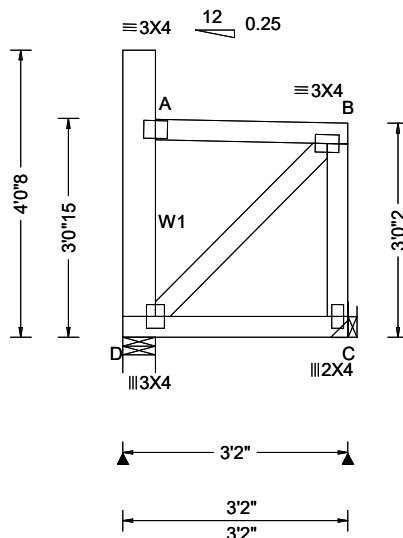
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514 Earth City Expressway
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Earth City, Missouri 63045

Building 4

SEQN: 96245 / FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T48	Cust: R 9316 JRef: 1XdW93160007 T197 DrwNo: 075.22.1440.29696 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.71 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.119 Max BC CSI: 0.041 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 101 /- /- /83 /53 /78 C 125 /- /- /119 /47 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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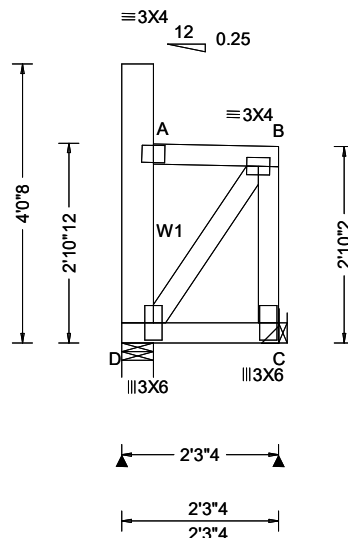
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Building 4

SEQN: 96247 / FROM:	MONO Qty: 16	Ply: 1	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T49	Cust: R 9316 JRef: 1XdW93160007 T217 DrwNo: 075.22.1440.32173 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.056 Max BC CSI: 0.021 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity D 66 /- /- /80 /78 /80 C 88 /- /- /125 /61 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.16	7.63 1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

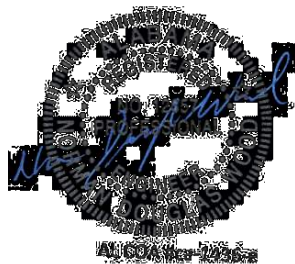
Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.

Truss must be installed as shown with top chord up.



03/16/2022

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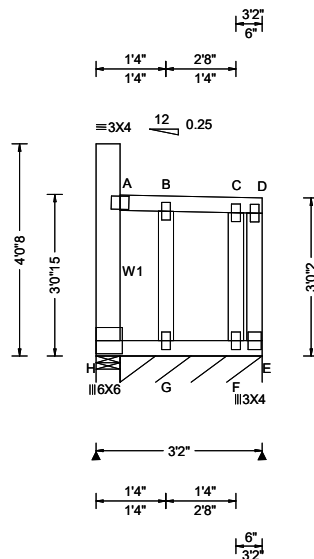
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Building 4

SEQN: 96253 / FROM:	GABL Ply: 1 Qty: 4	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T51	Cust: R 9316 JRef: 1XdW93160007 T169 DrwNo: 075.22.1440.33463 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.71 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 360 VERT(CL): 0.010 A 999 240 HORZ(LL): 0.122 C - - HORZ(TL): 0.143 B - - Creep Factor: 2.0 Max TC CSI: 0.105 Max BC CSI: 0.293 Max Web CSI: 0.131 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL H 24 - / - /116 /131 /90 E* 79 - / - /87 /44 - Wind reactions based on MWFRS H Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 32.5 Min Req = - Bearings H & H are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

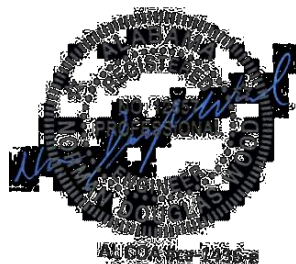
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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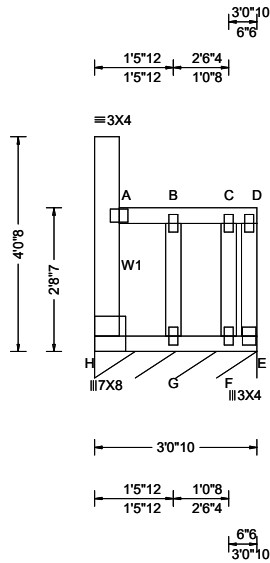
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Building 4

SEQN: 96257 / FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T52	Cust: R 9316 JRef: 1XdW93160007 T132 DrwNo: 075.22.1521.48610 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 360 VERT(CL): 0.009 A 999 240 HORZ(LL): 0.115 A - - HORZ(TL): 0.134 A - - Creep Factor: 2.0 Max TC CSI: 0.115 Max BC CSI: 0.323 Max Web CSI: 0.142 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E* 74 /- /- /37 /5 /30 Wind reactions based on MWFRS E Brg Wid = 36.6 Min Req = - Bearing H is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.34 13.63 2.59
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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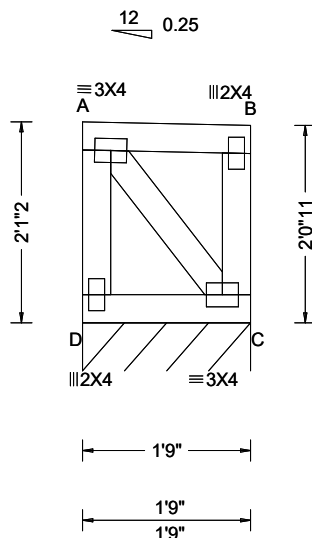
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Building 4

SEQN: 96259 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE01	Cust: R 9316 JRef: 1XdW93160007 T188 DrwNo: 075.22.1440.34918 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.042 Max BC CSI: 0.013 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /5 /19 Wind reactions based on MWFRS C Brg Wid = 21.0 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



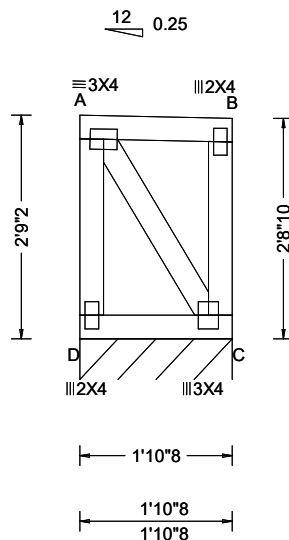
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Building 4

SEQN: 96291 / FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE1	Cust: R 9316 JRef: 1XdW93160007 T251 DrwNo: 075.22.1440.34462 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /6 /25 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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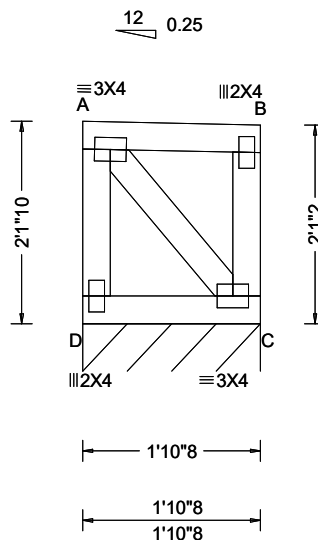
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Earth City, Missouri 63045

Building 4

SEQN: 96261 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE02	Cust: R 9316 JRef: 1XdW93160007 T189 DrwNo: 075.22.1440.30991 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.12 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.022 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /5 /18 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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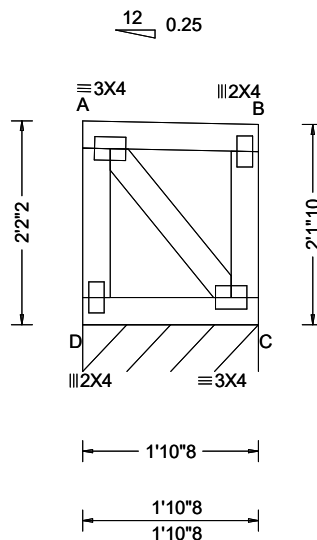
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Building 4

SEQN: 96263 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE03	Cust: R 9316 JRef: 1XdW93160007 T190 DrwNo: 075.22.1440.32095 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.16 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.023 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /5 /19 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

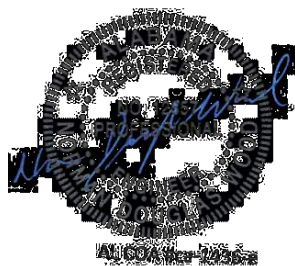
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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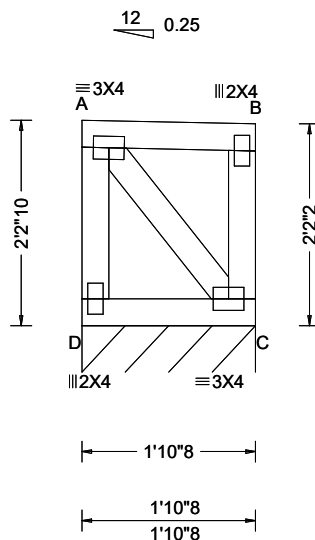
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Earth City, Missouri 63045

Building 4

SEQN: 96265 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE04	Cust: R 9316 JRef: 1XdW93160007 T192 DrwNo: 075.22.1440.29850 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /5 /19 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

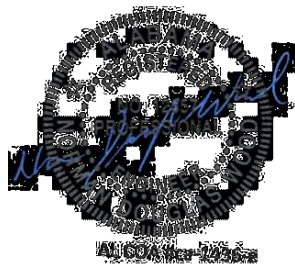
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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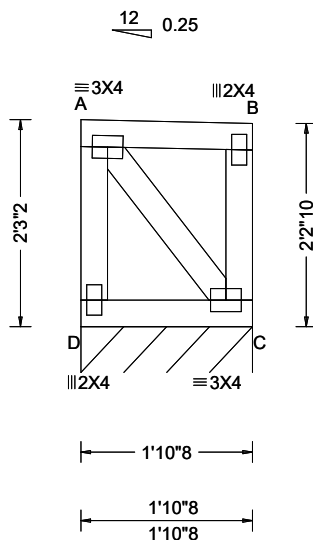
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Building 4

SEQN: 96267 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE05	Cust: R 9316 JRef: 1XdW93160007 T215 DrwNo: 075.22.1440.32578 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /5 /20 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

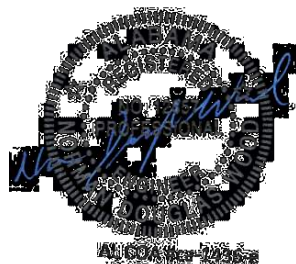
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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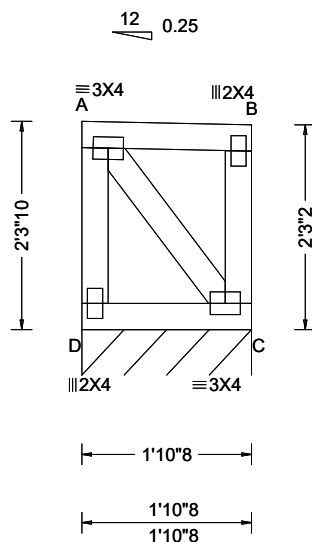
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Building 4

SEQN: 96269 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE06	Cust: R 9316 JRef: 1XdW93160007 T219 DrwNo: 075.22.1440.31105 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.28 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.026 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /5 /20 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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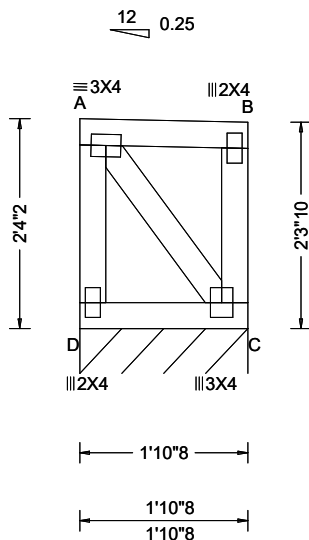
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Building 4

SEQN: 96271 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE07	Cust: R 9316 JRef: 1XdW93160007 T220 DrwNo: 075.22.1440.29420 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.32 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.027 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /5 /21 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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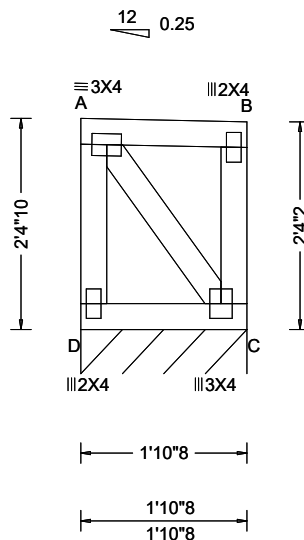
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Building 4

SEQN: 96273 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE08	Cust: R 9316 JRef: 1XdW93160007 T221 DrwNo: 075.22.1440.33820 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /5 /21 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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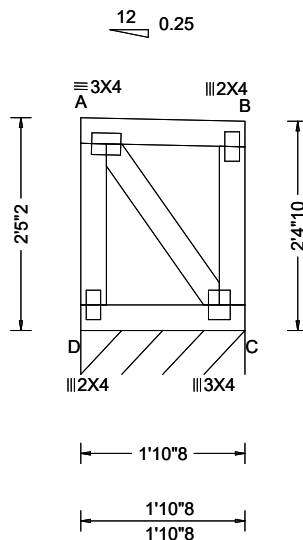
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Building 4

SEQN: 96275 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE09	Cust: R 9316 JRef: 1XdW93160007 T222 DrwNo: 075.22.1440.35362 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.41 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.029 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /5 /22 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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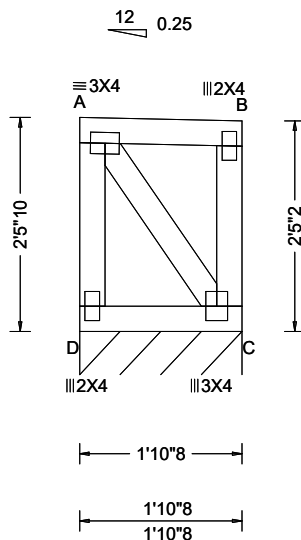
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Building 4

SEQN: 96277 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE10	Cust: R 9316 JRef: 1XdW93160007 T223 DrwNo: 075.22.1440.32590 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.45 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.031 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /6 /22 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

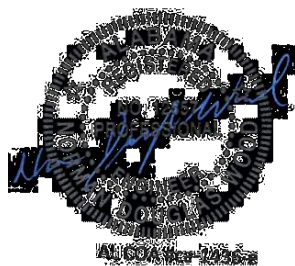
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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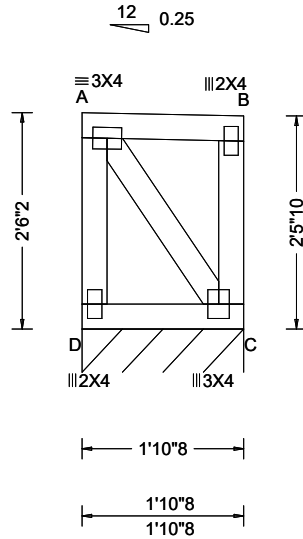
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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 4

SEQN: 96279 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE11	Cust: R 9316 JRef: 1XdW93160007 T224 DrwNo: 075.22.1440.29774 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.49 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.032 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /6 /22 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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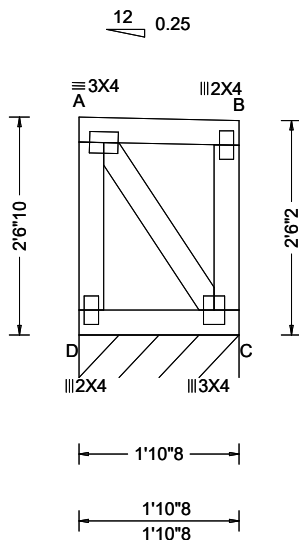
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Building 4

SEQN: 96281 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE12	Cust: R 9316 JRef: 1XdW93160007 T225 DrwNo: 075.22.1440.30433 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /6 /23 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

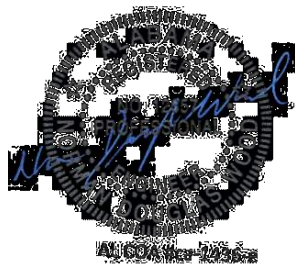
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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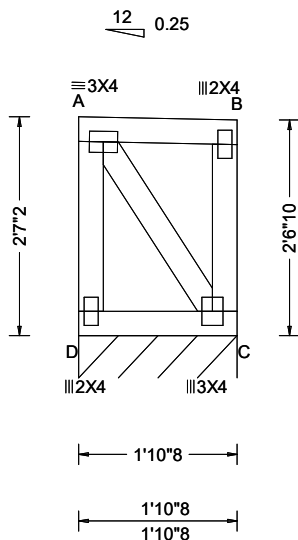
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Building 4

SEQN: 96283 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE13	Cust: R 9316 JRef: 1XdW93160007 T226 DrwNo: 075.22.1440.30567 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /6 /23 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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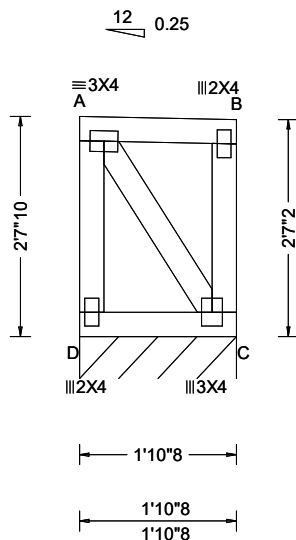
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Building 4

SEQN: 96285 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE14	Cust: R 9316 JRef: 1XdW93160007 T227 DrwNo: 075.22.1440.34594 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.036 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /6 /24 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

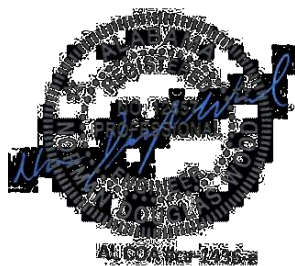
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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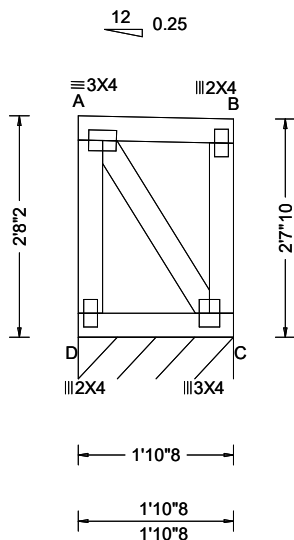
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Earth City, Missouri 63045

Building 4

SEQN: 96287 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE15	Cust: R 9316 JRef: 1XdW93160007 T228 DrwNo: 075.22.1440.30257 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.037 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /6 /24 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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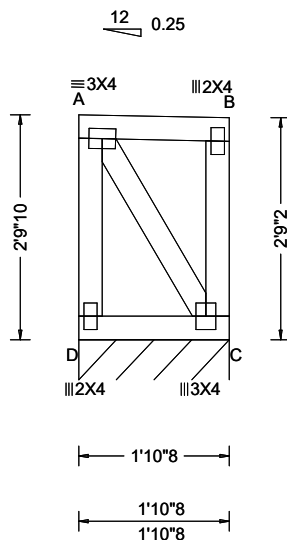
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Building 4

SEQN: 96293 / FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE16	Cust: R 9316 JRef: 1XdW93160007 T252 DrwNo: 075.22.1440.31786 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /6 /26 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

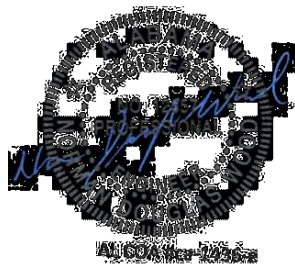
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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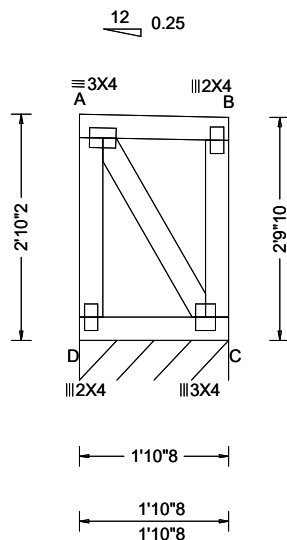
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Building 4

SEQN: 96295 / FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE17	Cust: R 9316 JRef: 1XdW93160007 T253 DrwNo: 075.22.1440.33562 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.82 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /6 /26 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

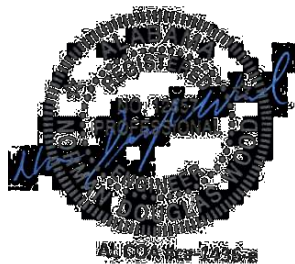
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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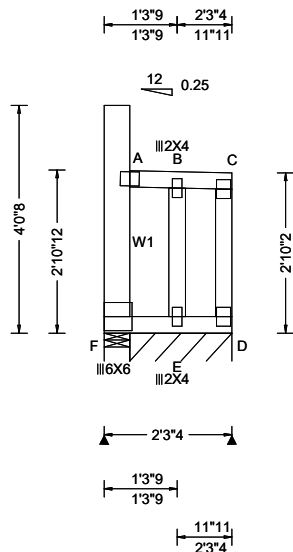
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Building 4

SEQN: 96251 / FROM:	MONO Qty: 8	Ply: 1	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE18	Cust: R 9316 JRef: 1XdW93160007 T138 DrwNo: 075.22.1440.29251 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 360 VERT(CL): 0.009 A 999 240 HORZ(LL): 0.124 B - - HORZ(TL): 0.141 B - - Creep Factor: 2.0 Max TC CSI: 0.111 Max BC CSI: 0.255 Max Web CSI: 0.115 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 15 /-12 /- /118 /150 /92 D* 89 /- /- /127 /70 /- Wind reactions based on MWFRS F Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 21.7 Min Req = - Bearings F & F are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Provide for complete drainage of roof.
Truss must be installed as shown with top chord up.



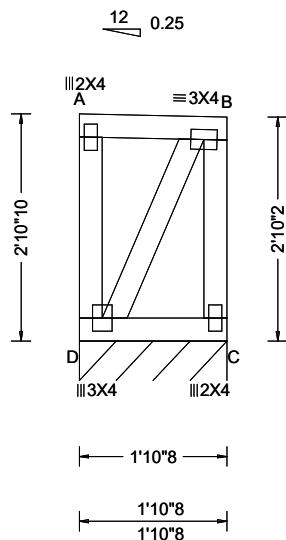
03/16/2022

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Building 4

SEQN: 96297 / FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE19	Cust: R 9316 JRef: 1XdW93160007 T254 DrwNo: 075.22.1521.48614 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 B 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.017 Max Web CSI: 0.043 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 80 /- /- /41 /6 /27 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



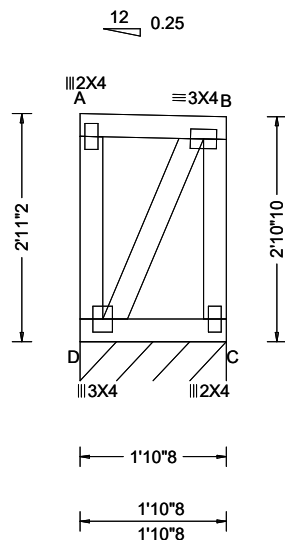
03/16/2022

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Building 4

SEQN: 96299 / FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE20	Cust: R 9316 JRef: 1XdW93160007 T255 DrwNo: 075.22.1521.48628 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 B 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.017 Max Web CSI: 0.044 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 80 /- /- /41 /6 /28 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

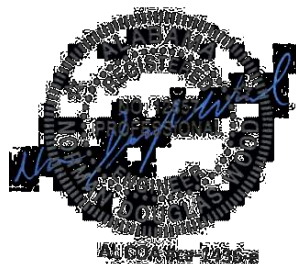
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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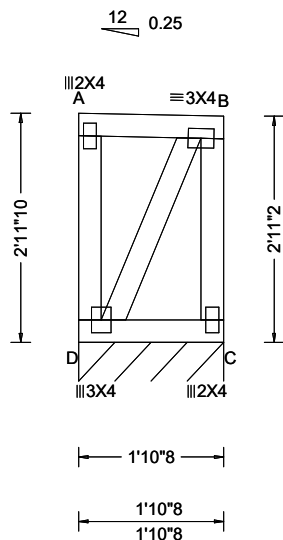
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Building 4

SEQN: 96301 / FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE21	Cust: R 9316 JRef: 1XdW93160007 T256 DrwNo: 075.22.1527.41609 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 B 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.017 Max Web CSI: 0.046 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 80 /- /- /41 /6 /28 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

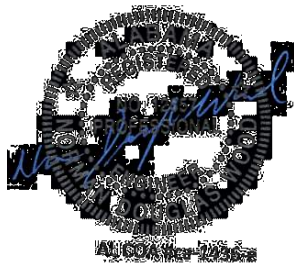
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



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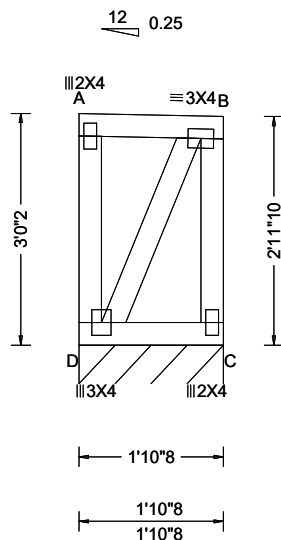
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Building 4

SEQN: 96317 / FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE22	Cust: R 9316 JRef: 1XdW93160007 T257 DrwNo: 075.22.1527.41610 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 B 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.017 Max Web CSI: 0.047 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 80 /- /- /41 /6 /29 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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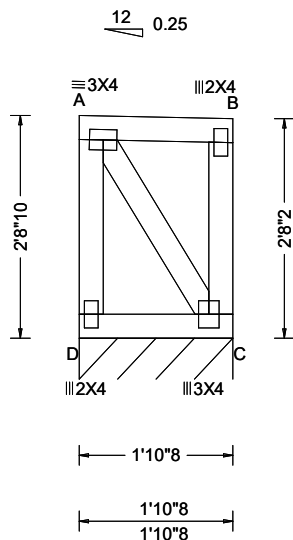
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Earth City, Missouri 63045

Building 4

SEQN: 96289 / FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220684 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE23	Cust: R 9316 JRef: 1XdW93160007 T231 DrwNo: 075.22.1440.29563 / NDW 03/16/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.049 Max BC CSI: 0.015 Max Web CSI: 0.038 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 84 /- /- /41 /6 /25 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

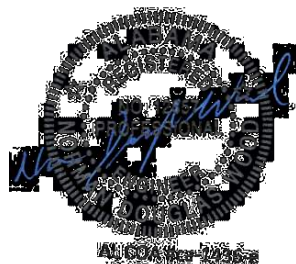
Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



03/16/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Gable Stud Reinforcement Detail

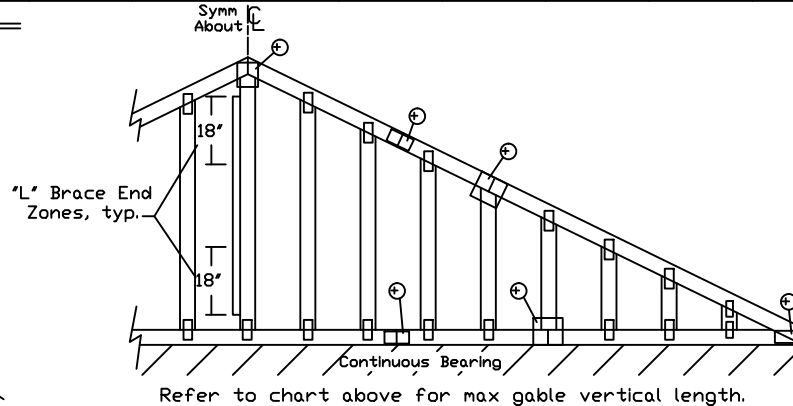
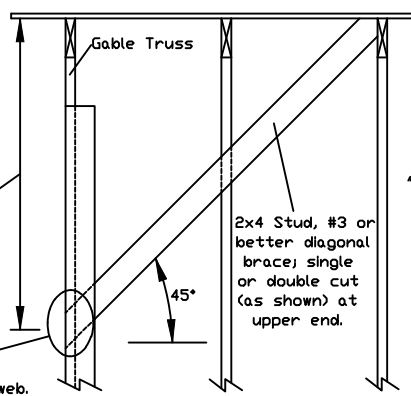
ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **		
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	
24" O.C.	SPF	HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"	
			#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
			Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
			Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"	
		DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"	
			#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"	
			#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
			Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
	Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"			
		SPF	HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
				#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
				Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
Standard	5' 2"			7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"		
DFL	#1		5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"		
	#2		5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"		
	#3		5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"		
	Stud		5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"		
Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			
	SPF	HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
			#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
			Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
Standard			5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
DFL		#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Refer to chart above for max gable vertical length.

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.

* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
 ** For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but	2X4
	3X4



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514 Earth City Expressway
 Suite 242
 Earth City, MO 63045

MAX. TOT. LD. 41,000 LBS

MAX. SPACING 24.0"

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

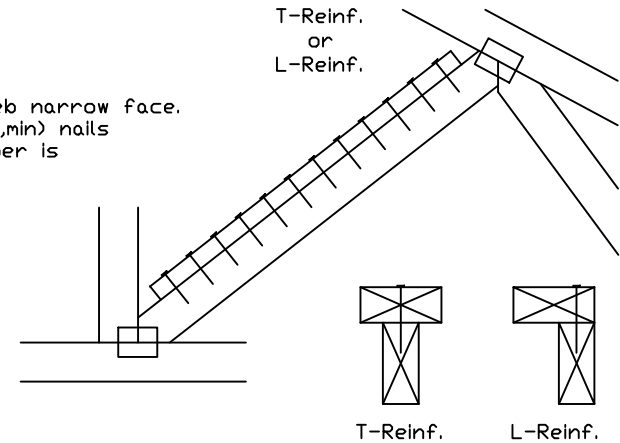
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(✕)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(✕)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(✕) Center scab on wide face of web. Apply (1) scab to each face of web.

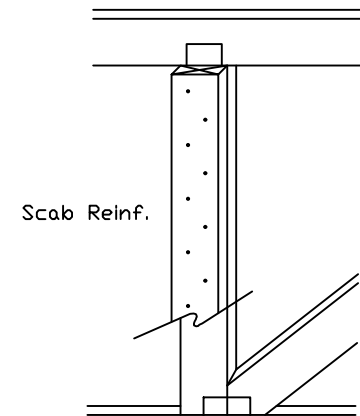
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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TC LL	Subst.
TC DL	DATE 2/19
BC DL	CLBSUB0119
BC LL	
TOT. LD.	
DUR. FAC.	
SPACING	

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considered less than the design dead load.

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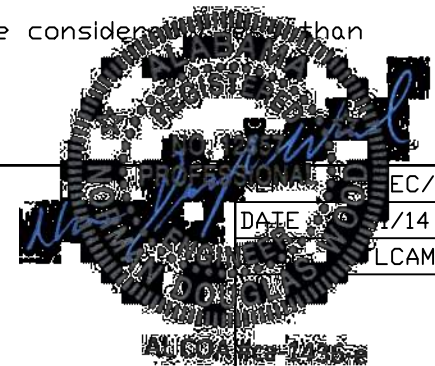
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514 Earth City Expressway
Suite 242
Earth City, MO 63045



EC/CAMB

DATE: 1/14

LCAMB1014

Building 4

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail
for lumber, plates, and other information not shown
on this detail.

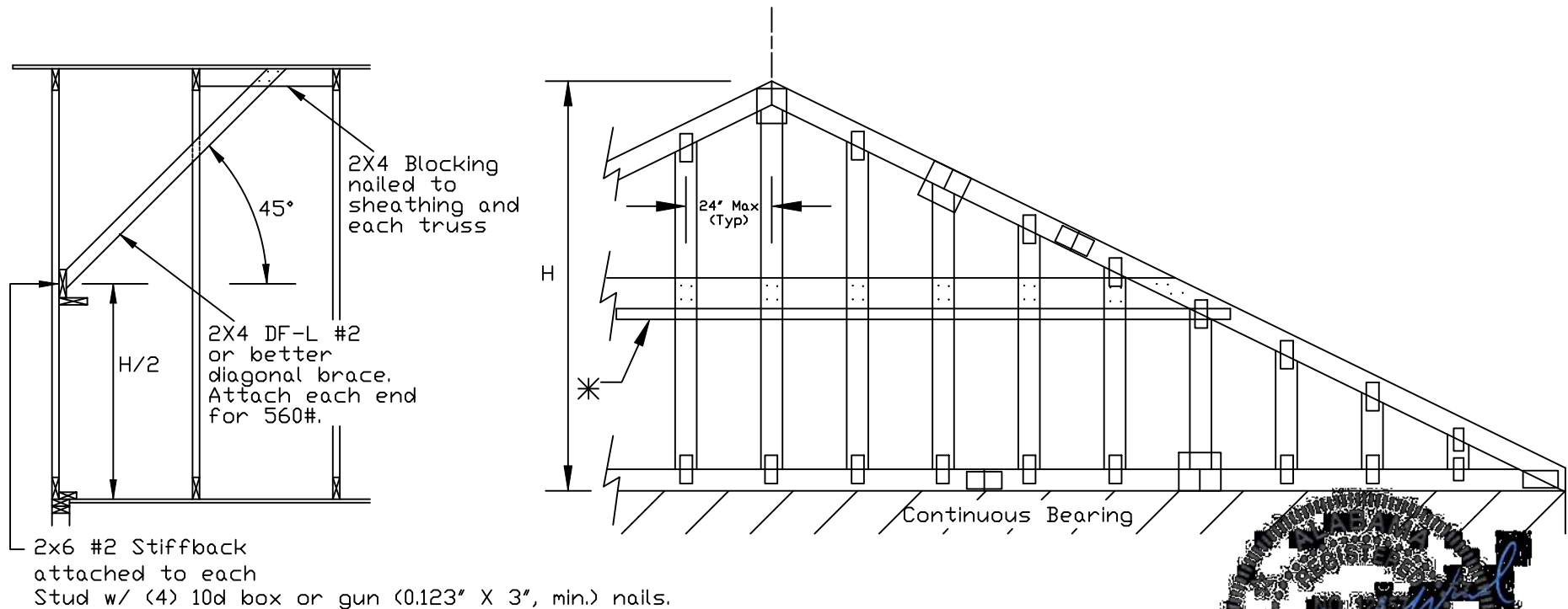
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback
to roof diaphragm every 6'0" (see detail below or
refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace
to roof diaphragm every 4'0" (see detail below or
refer to DRWG A12030ENC160118).

* Optional 2x L-reinforcement attached
to stiffback with 10d box or gun
(0.128" x 3", min.) nails @ 6" o.c.



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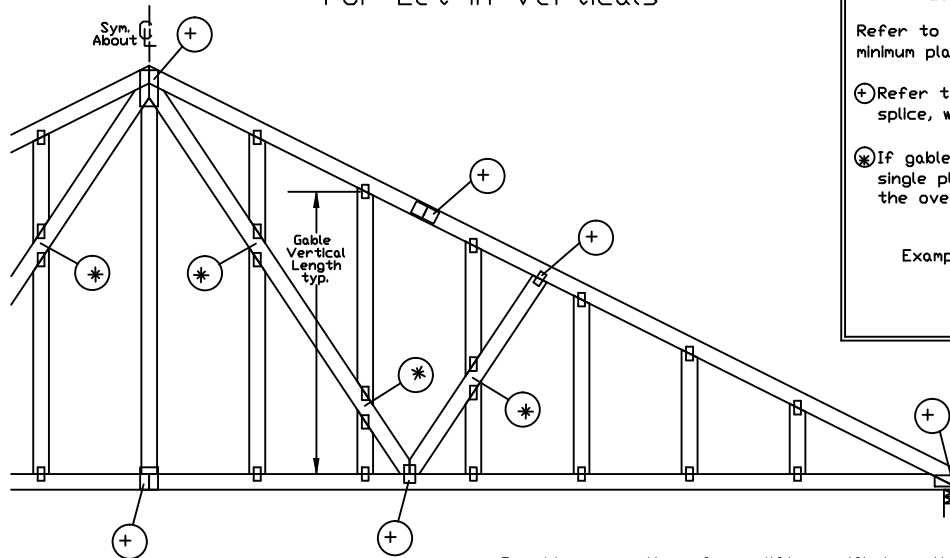
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	DATE	HALER
	2/2018	
	DRWG A12030ENC160118	
	MAX. TOT. LD.	
MAX. SPACING		

Gable Detail For Let-in Verticals

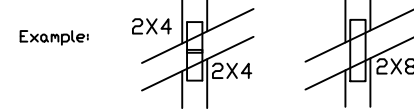


Gable Truss Plate Sizes

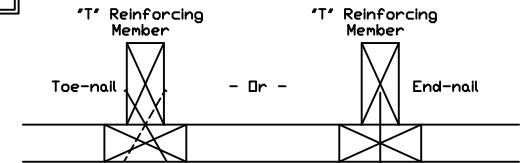
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.



'T' Reinforcement Attachment Detail



To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate Alpine gable detail).

Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member.

Web Length Increase w/ 'T' Brace

'T' Reinf. Mbr. Size	'T' Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

Gable Vertical = 24' o.c. SP #3

'T' Reinforcing Member Size = 2x4

'T' Brace Increase (From Above) = 30% = 1.30

(1) 2x4 'L' Brace Length = 8' 7"

Maximum 'T' Reinforced Gable Vertical Length
 $1.30 \times 8' 7" = 11' 2"$

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

10d Common (0.148"x 3", min) Nails at 4' o.c. plus
 (4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x 3", min) Toenails at 4' o.c. plus
 (4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

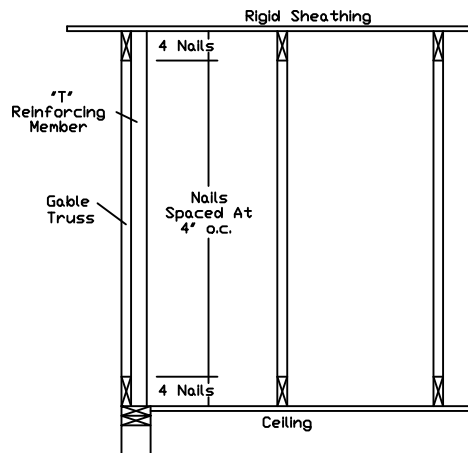
ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,
 A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,
 A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118,
 A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,
 A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118,
 S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
 S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118,
 S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
 S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



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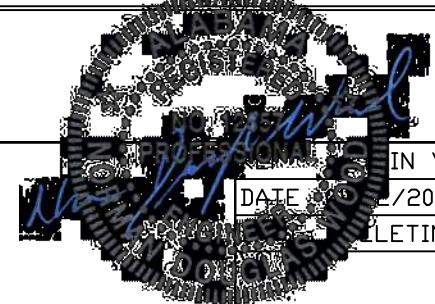
A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this Job's general notes page and these web sites:

ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org 03/16/2022



514 Earth City Expressway
 Suite 242
 Earth City, MO 63045



IN VERT

DATE 03/16/2022

LETIN0118

MAX. TOT. LD. 6000 LBS

DUR. FAC. ANY

MAX. SPACING 24.0"



Structural Engineers – Since 1957

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

BOB D. CAMPBELL & CO., INC.

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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 3, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
061753 - Shop-Fabricated Wood Trusses Shop Drawings	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101



Employee-Owned

TRANSMITTAL

Kolten Ragan, Project Engineer
Brinkmann Constructors
 11101 Switzer Road, Suite 310
 Overland Park, KS 66210

Date: 4/27/2022

To:

TR,i Architects

Attn: Michaela Silva
 1790 S Brentwood Blvd
 St. Louis, MO 63144

Re: Vanguard Villas

2100 NW Lowenstein Dr.
 Lee's Summit, MO 64081

Job #: 1399

We are sending:

- ☐ Product Data
- ☐ Reports
- ☒ Shop Drawings
- ☐ Samples
- ☐ Other

Transmitted as checked:

- ☐ For Approval
- ☐ For Your Use
- ☒ As Requested
- ☐ Approved as Submitted
- ☐ Other

Transmitted via:

- ☒ Via email (PDF)
- ☐ Copies to follow (USPS/Ground)

Submittal Number	Description	Date Submitted	Due Date
061753-6-R1	Group 5 Floor & Roof Truss - SD	4/27/2022	5/13/2022

REVIEWED ☒

DATE RECEIVED:

REVIEWED AS NOTED ☐

DATE REVIEWED: 5/23/2022

REVISE AND RESUBMIT ☐

REVIEWED BY: michaela.silva

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



1790 Brentwood Blvd.
 St. Louis, Missouri 63144
 314.395.9750
 www.triarchitects.com

Brinkmann Approval

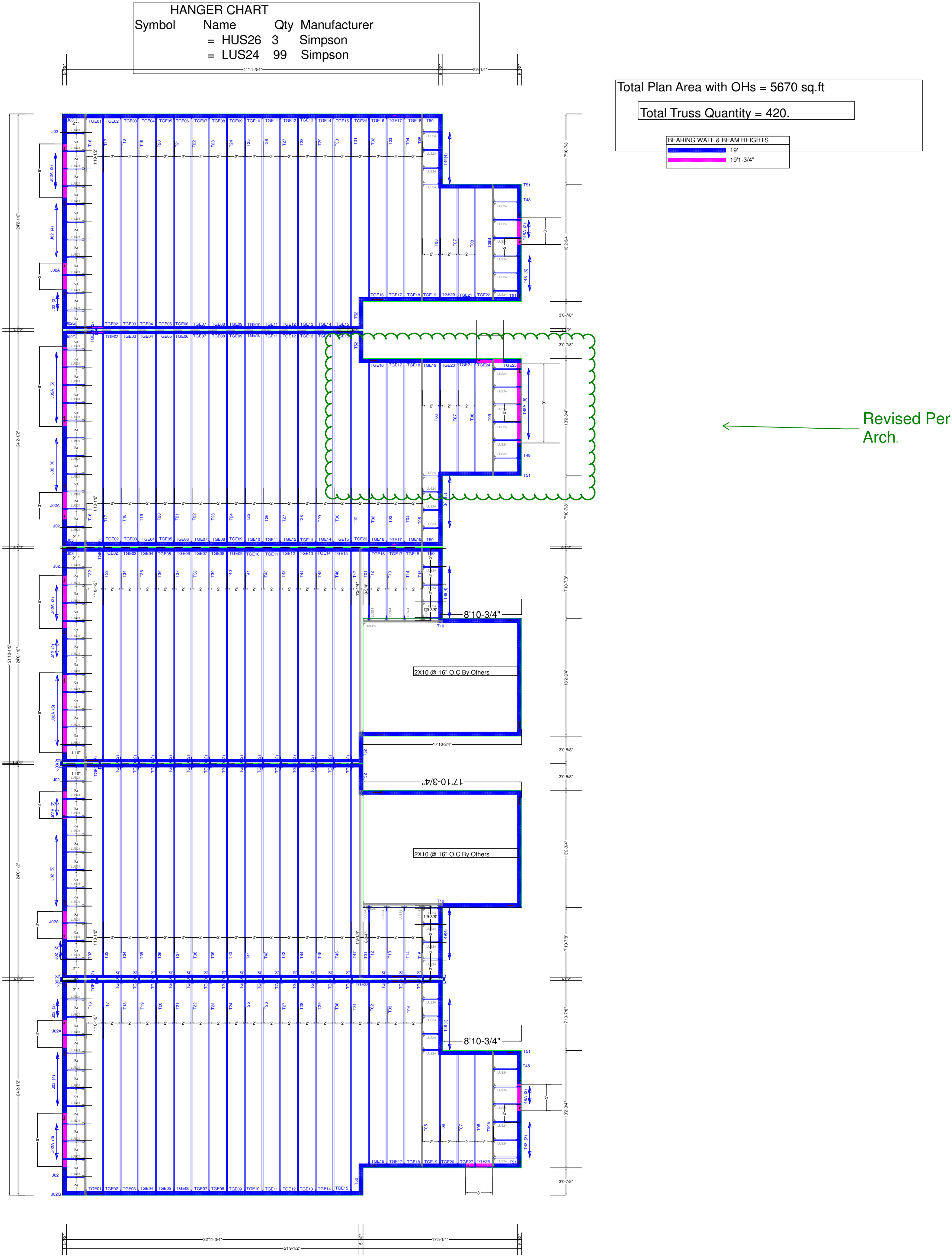
Submittals bearing this stamp have been verified or will be verified as to materials, field measurements and construction criteria related thereto and have been coordinated with the Contract Documents. The Sub-contractor is responsible to the General Contractor for dimensions to be confirmed and correlated at the job site, and for information that pertains to the fabrication process or to the technique of construction and for coordination of the work with all trades.

By: Kolten Ragan

Date: 4/27/2022

Brinkmann Comments in Green

Group 5 Roof Layout



DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

SHOP DRAWING REVIEW

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

☐ APPROVED

☐ FURNISH AS CORRECTED

☐ REJECTED, REVISE & RESUBMIT

☐ RETURNED NOT REVIEWED

☒ REVIEWED

REFER TO REVISIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.

STRUCTURAL ENGINEERS

DATE: 05/03/2022 BY: MJF



NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

Job Name:		Customer:	
McCambridge Brothers Construction		MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC	
Designer:	Juan R Quiroz	Address:	2100 NW Lowenstein Dr Lee's Summit MO
Reference #:	JB-220686	Date:	4/22/2022

Building 5

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location indicates Left Front Section of Trusses

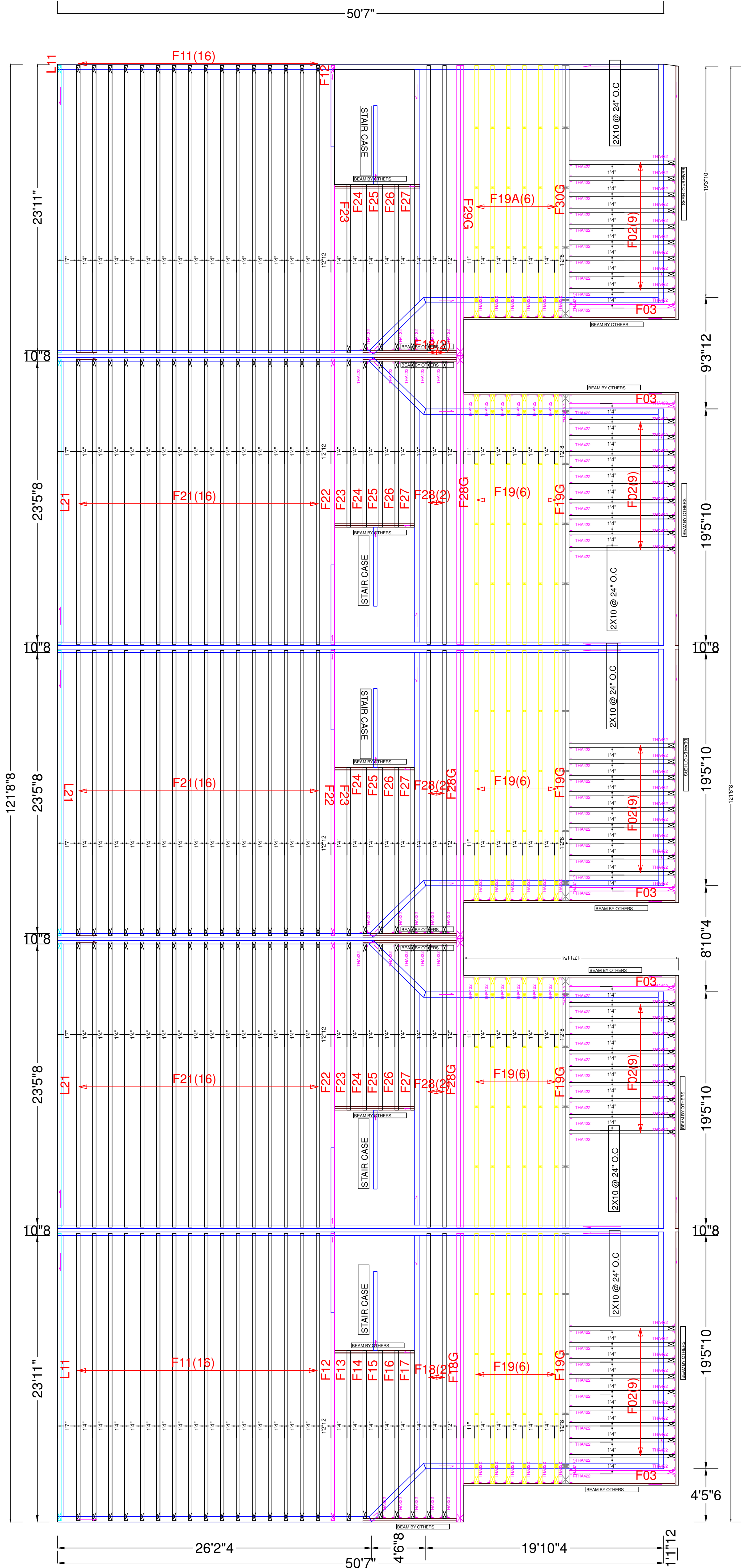
Group 5 Floor Layout

Total Truss Quantity = 225.

Total Plan Area with OHs = 5429 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
	= THA422	159	Simpson
	= THA422-2	5	Simpson



Job Name:

McCambridge Brothers Construction

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Designer: Juan R Quiroz

Reference #: JB-220685

Date: 3/17/2022

Address:

2100 NW Lowenstein Dr
Lee's Summit
MO



3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108



Revised Per BDC
comment



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/26/2022

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220685
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00 JRef #: 1Xt193160001
Wind Standard: ASCE716 Wind Speed (mph): 0	Design Loading (psf): 75.00
Building Type:	

This package contains general notes pages, 27 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	116.22.0934.25760	F02	2	116.22.0934.26204	F03
3	116.22.0934.26523	F11	4	116.22.0934.26731	F12
5	116.22.0934.26230	F13	6	116.22.0934.26064	F14
7	116.22.0934.26165	F15	8	116.22.0934.26423	F16
9	116.22.0934.26548	F17	10	116.22.0934.25834	F18
11	116.22.0934.26454	F18G	12	116.22.0934.26596	F19
13	116.22.0934.26817	F19A	14	116.22.0934.26616	F19G
15	116.22.0934.25775	F21	16	116.22.0934.26555	F22
17	116.22.0934.26136	F23	18	116.22.0934.25793	F24
19	116.22.0934.26366	F25	20	116.22.0934.25842	F26
21	116.22.0934.25861	F27	22	116.22.0934.25833	F28
23	116.22.0934.25795	F28G	24	116.22.0934.26869	F29G
25	116.22.0934.26843	F30G	26	116.22.0934.26285	L11
27	116.22.0934.26342	L21	28	CNSY42PL0118	
29	DEFLCAMB1014		30	LSCSYX2A1014	
31	STRBRIBR1014				

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)**Key to Terms:**

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

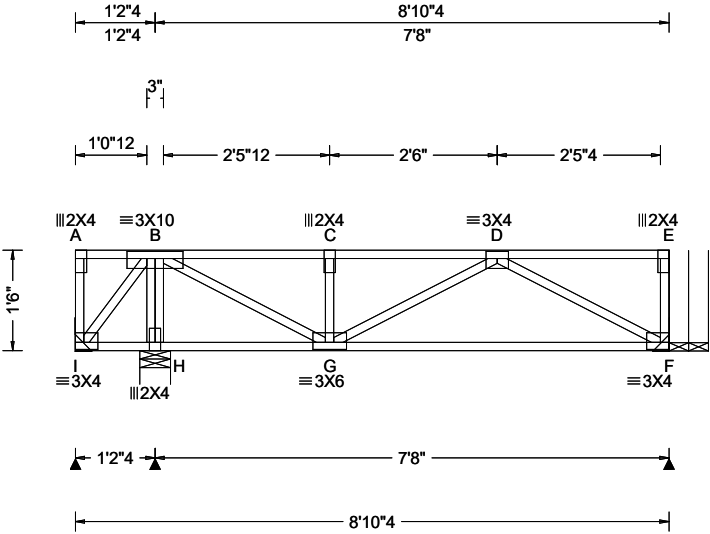
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

SEQN: 96773 / FROM:	SY42 Qty: 45	Ply: 1 Qty: 45	Job Number: JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F02	Cust: R 9316 JRef: 1X193160001 T6 DrwNo: 116.22.0934.25760 / NDW 04/26/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/def L/#		Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.018 C 999 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.034 C 999 360		I	28	/-43	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): 0.002 F - -		H	525	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE		HORZ(TL): 0.004 F - -		F	372	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft				Creep Factor: 2.0		I	Brg Wid = -		Min Req = -			
Soffit: 0.00		TCDL: NA psf				Max TC CSI: 0.299		H	Brg Wid = 5.5		Min Req = 1.5 (Truss)			
Load Duration: 1.00		BCDL: NA psf				Max BC CSI: 0.301		F	Brg Wid = -		Min Req = -			
Spacing: 16.0 "		MWFRS Parallel Dist: NA				Max Web CSI: 0.162		Bearing H is a rigid surface.						
		C&C Dist a: NA ft						Members not listed have forces less than 375#						
		Loc. from endwall: NA						Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA						Chords Tens.Comp. Chords Tens. Comp.						
		Wind Duration: NA						B C D E F G H I J K L M N O P Q R S T U V W X Y Z						

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

G - F 473 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

B - H 0 -499 D - F 0 -537
B - G 576 0



04/26/2022

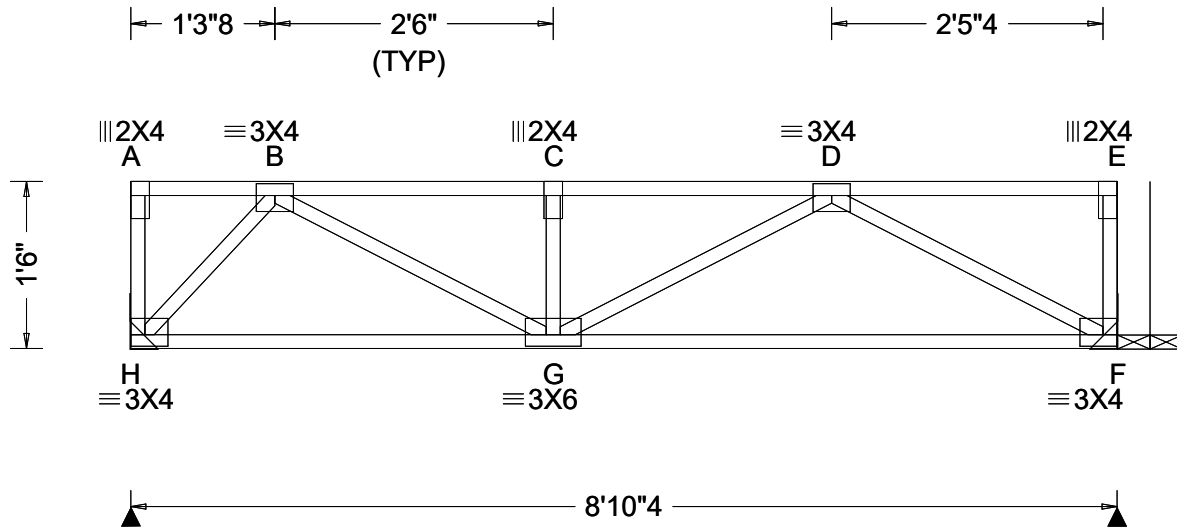
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96775 / FROM:	SY42 Qty: 5	Ply: 1 Qty: 5	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F03	Cust: R9316 JRef: 1X193160001 T7 / DrwNo: 116.22.0934.26204 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.024 C 999 480 VERT(CL): 0.046 C 999 360 HORZ(LL): 0.004 B - - HORZ(TL): 0.008 B - - Creep Factor: 2.0 Max TC CSI: 0.298 Max BC CSI: 0.324 Max Web CSI: 0.141 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL H 443 /- /- /- /- /- F 443 /- /- /- /- /- H Brg Wid = - Min Req = - F Brg Wid = - Min Req = - Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -747 C - D 0 -747 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. G - F 606 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. H - B 0 -546 D - F 0 -687 B - G 426 0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.



04/26/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

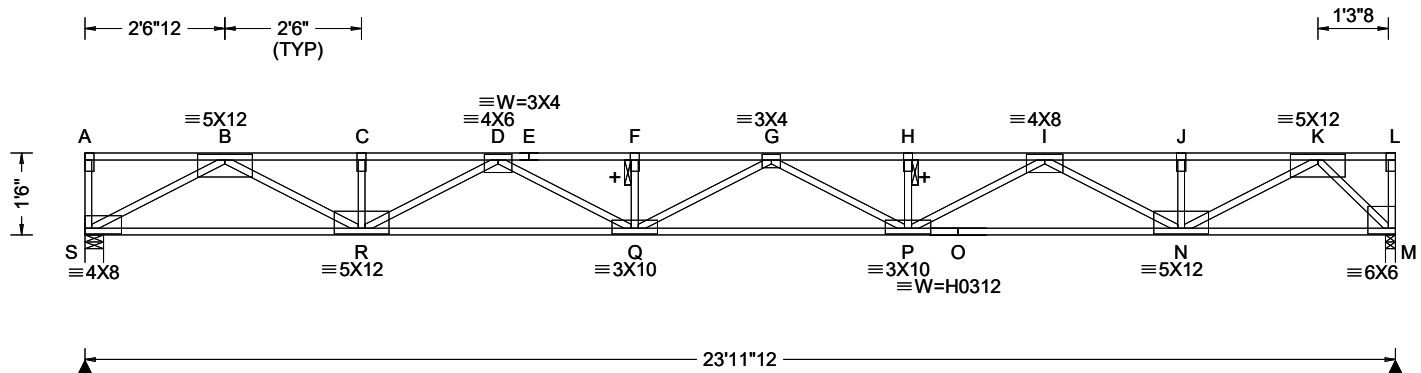
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96777 /	SY42	Ply: 1	Job Number: JB-220685	Cust: R 9316 JRef: 1Xf193160001 T28 /
FROM:		Qty: 32	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 116.22.0934.26523
			Truss Label: F11	/ NDW 04/26/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.414 G 695 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.775 G 371 360	S 1199 /- /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.057 M - -	M 1199 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.107 M - -	S Brg Wid = 4.1 Min Req = 1.5 (Truss)
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.398	Bearings S & M are a rigid surface.
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.672	Members not listed have forces less than 375#
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.551	Maximum Top Chord Forces Per Ply (lbs)
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Chords Tens.Comp. Chords Tens. Comp.
	Loc. from endwall: NA	Plate Type(s):		B - C 0 - 3522 G - H 0 - 4917
	I: NA GCpi: NA	WAVE, HS	VIEW Ver: 21.02.00.1005.17	C - D 0 - 3522 H - I 0 - 4917
	Wind Duration: NA			E - F 0 - 3522 J - K 0 - 4917

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-

S Brg Wid = 4.1 Min Req = 1.5 (Truss)
M Brg Wid = 2.1 Min Req = 1.5 (Truss)

Bearings S & M are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	0 - 3522	G - H	0 - 4917
C - D	0 - 3522	H - I	0 - 4917
D - E	0 - 5123	I - J	0 - 2895
E - F	0 - 5123	J - K	0 - 2895
F - G	0 - 5123		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens.	Comp.
S - B	0 - 2281	P - I	925	0
B - R	1725 0	I - N	0	- 1382
R - D	0 - 1143	N - K	1954	0
D - Q	684 0	K - M	0	- 1648



04/26/2022

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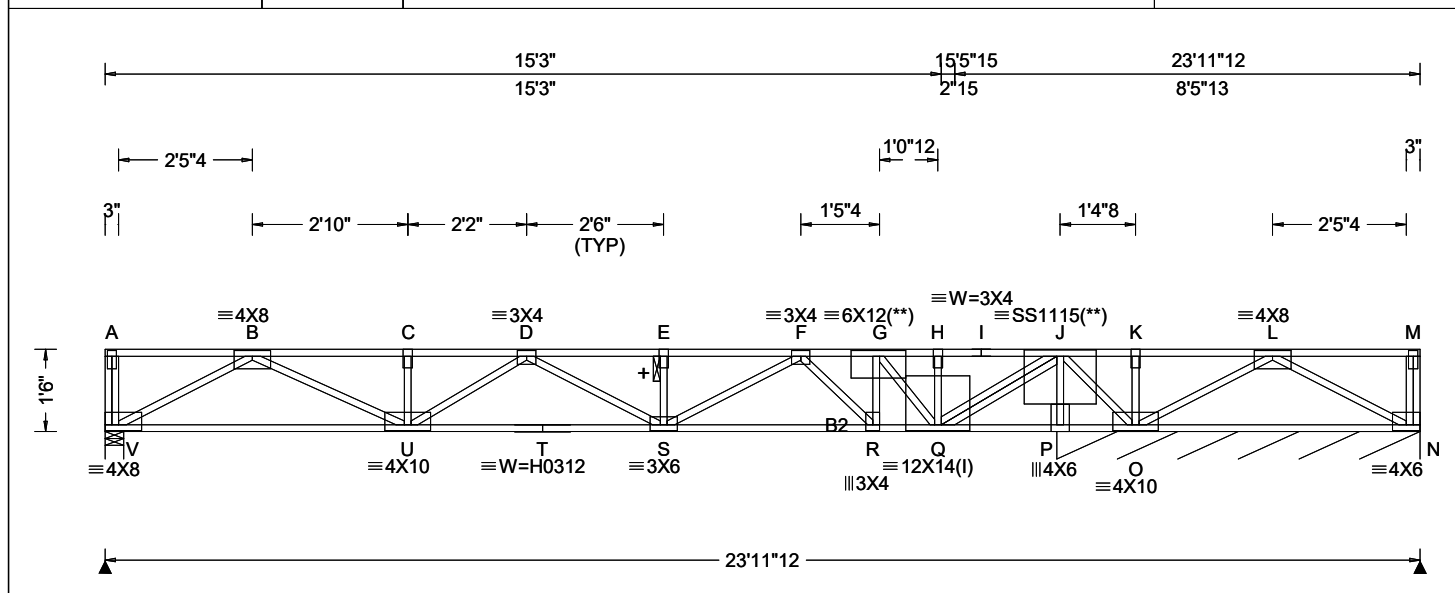
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 96779 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F12	Cust: R9316 JRef: 1X193160001 T1 / DrwNo: 116.22.0934.26731 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE, HS, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.201 E 999 480 VERT(CL): 0.377 E 545 360 HORZ(LL): 0.029 B - - HORZ(TL): 0.054 B - - Creep Factor: 2.0 Max TC CSI: 0.946 Max BC CSI: 0.960 Max Web CSI: 0.568 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL V 961 /- /- /- /- /- N* 443 /- /- /- /- /- N /-304 V Brg Wid = 4.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2615 G - H 0 -818 C - D 0 -2615 H - I 0 -818 D - E 0 -3202 I - J 0 -818 E - F 0 -3202 J - K 2031 0 F - G 0 -2426 K - L 2031 0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

——(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes

All plates are 2X4 except as noted.

(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.



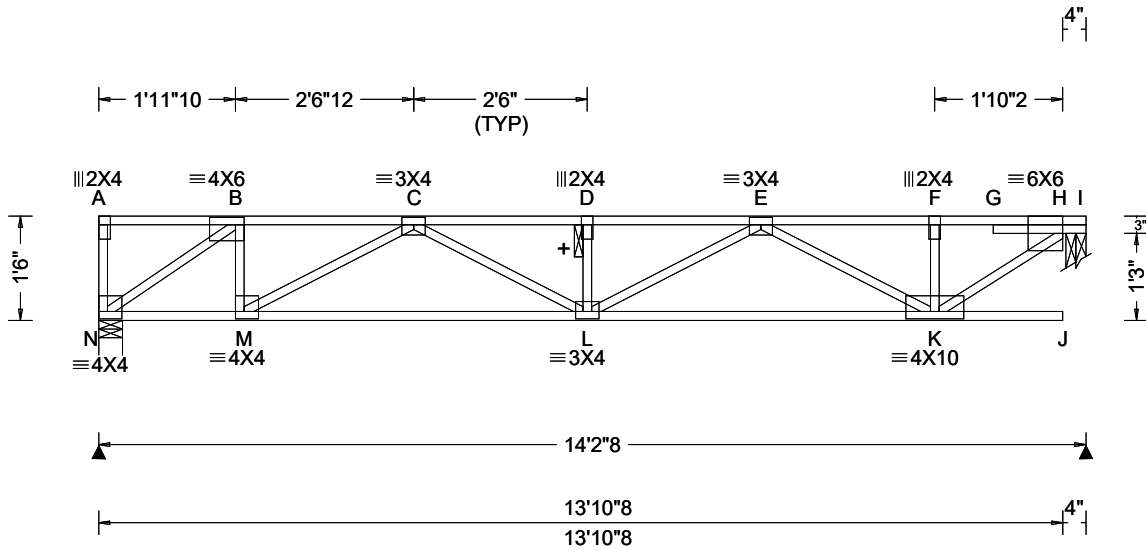
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SEQN: 96781 / FROM:	SY42 Qty: 1	Ply: 1	Job Number: JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F13	Cust: R9316 JRef:1Xf193160001 T23 / DrwNo: 116.22.0934.26230 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.096 D 999 480 VERT(CL): 0.179 D 942 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.620 Max BC CSI: 0.537 Max Web CSI: 0.329 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 702 -/- /- /- /- /- H 714 -/- /- /- /- /- N Brg Wid = 4.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -943 E - F 0 -943 C - D 0 -1836 F - H 0 -942 D - E 0 -1836

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	905 0	L - K	1574 0
M - L	1582 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1104	E - K	0 -721
B - M	416 0	K - H	1166 0
M - C	0 -734		



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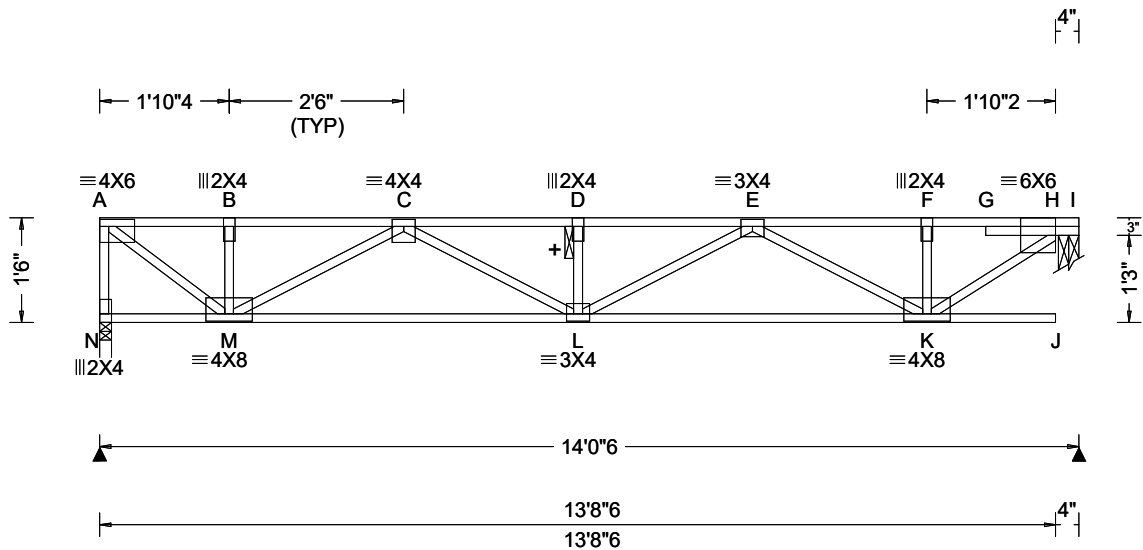
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SEQN: 96783 / FROM:	SY42 Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F14	Cust: R 9316 JRef: 1Xf193160001 T15 / DrwNo: 116.22.0934.26064 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.093 D 999 480 VERT(CL): 0.174 D 955 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.612 Max BC CSI: 0.524 Max Web CSI: 0.324 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 693 /- /- /- /- /- H 706 /- /- /- /- /- N Brg Wid = 2.0 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -849 D - E 0 -1791 B - C 0 -849 E - F 0 -929 C - D 0 -1791 F - H 0 -929

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1520 0	L - K	1546 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -690	E - K	0 -703
A - M	1057 0	K - H	1150 0
M - C	0 -766		

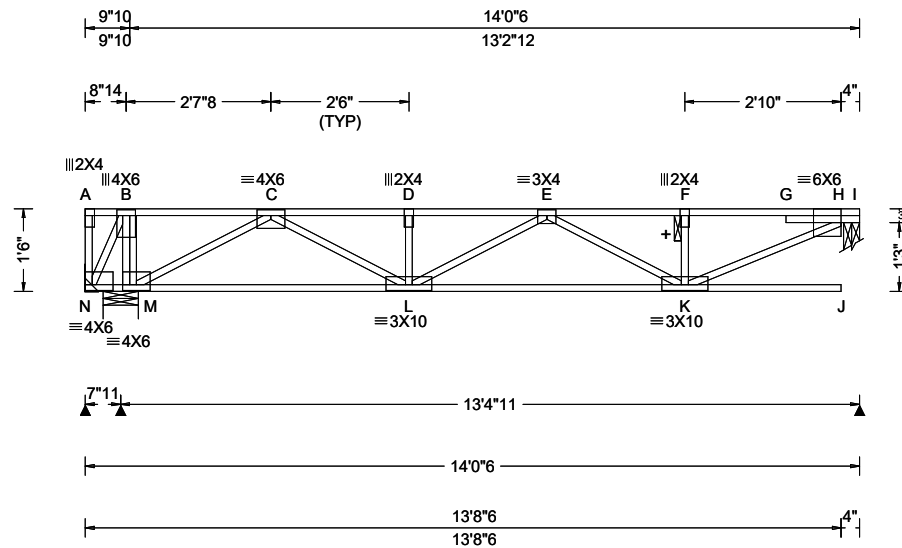


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Earth City, Missouri 63045

SEQN: 96787 / FROM:	SY42 Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F15	Cust: R 9316 JRef: 1X193160001 T26 / DrwNo: 116.22.0934.26165 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCCL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.200 J 780 480 VERT(CL): 0.320 J 487 360 HORZ(LL): 0.011 C - - HORZ(TL): 0.020 C - - Creep Factor: 2.0 Max TC CSI: 0.961 Max BC CSI: 0.588 Max Web CSI: 0.339 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-708 /- /- /- /- N 1480 /- /- /- /- /- H 618 /- /- /- /- /- N Brg Wid = - Min Req = - N Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	600	L - K	1318

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	685	C - L	693
B - M	0	K - H	1201
M - C	0		1141



04/26/2022

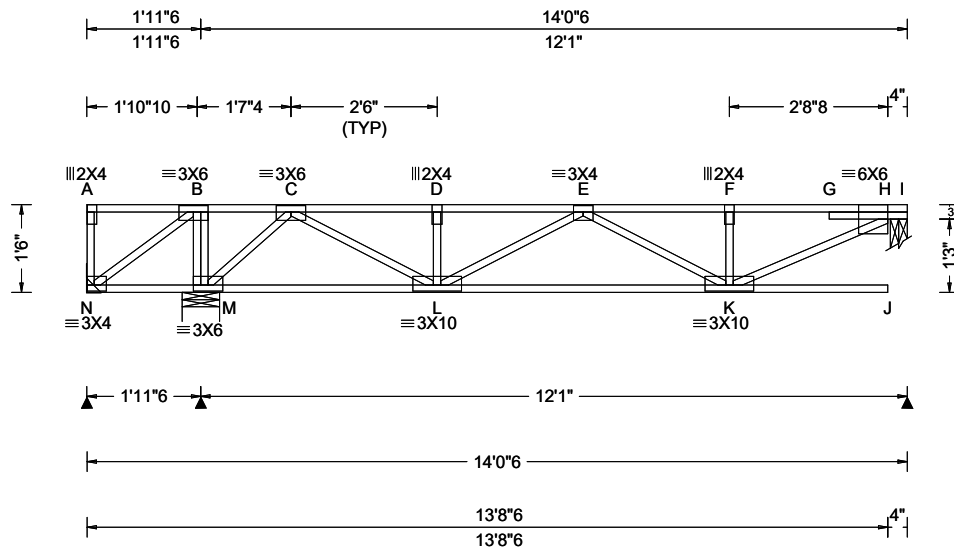
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SEQN: 96789 / FROM:	SY42	Ply: 1 Qty: 1	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F16	Cust: R9316 JRef: 1X193160001 T33 / DrwNo: 116.22.0934.26423 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.159 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.283 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - / -323 / - / - / - / - M 1131 / - / - / - / - / - I 547 / - / - / - / - / - N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	0 -469	L - K	1034 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	580 0	C - L	816 0
B - M	0 -512	K - H	1004 0
M - C	0 -842		



04/26/2022

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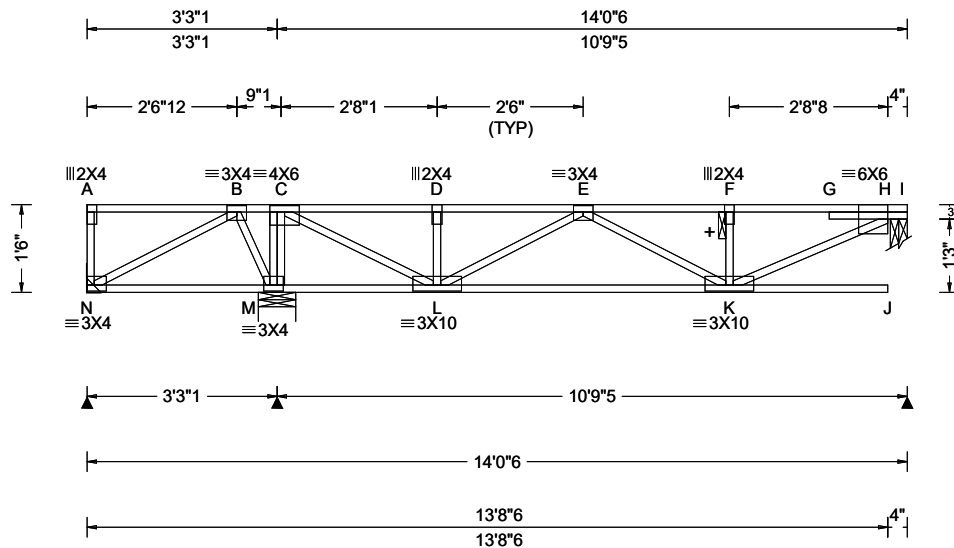
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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96791 / FROM:	SY42 Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F17	Cust: R9316 JRef: 1X193160001 T20 / DrwNo: 116.22.0934.26548 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 870 480 VERT(CL): 0.233 J 550 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.749 Max BC CSI: 0.437 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 57 /-122 /- /- /- /- M 959 /- /- /- /- /- I 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

L - K 818 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

M - C 0 -627 K - H 874 0
C - L 963 0



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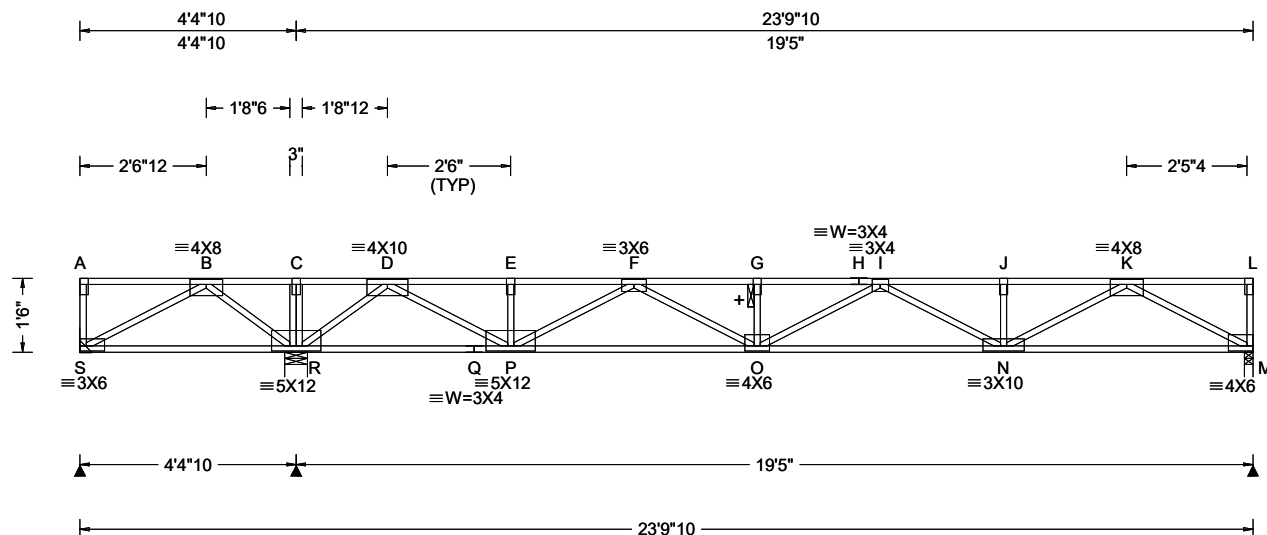
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Suite 242
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SEQN: 96793 / FROM:	SY42 Qty: 4	Ply: 1	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F18	Cust: R 9316 JRef: 1X193160001 T16 / DrwNo: 116.22.0934.25834 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 G 999 480 VERT(CL): 0.371 G 628 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.796 Max Web CSI: 0.466 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-458 /- /- /- /- R 1886 /- /- /- /- /- M 844 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Negative reaction(s) of -458# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	0 -955	P - O	1987 0
R - Q	0 -427	O - N	2580 0
Q - P	0 -427	N - M	1352 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - B	1084 0	F - O	631 0
B - R	0 -1117	I - N	0 -411
R - D	0 -1648	N - K	991 0
D - P	1653 0	K - M	0 -1535
P - F	0 -1085		



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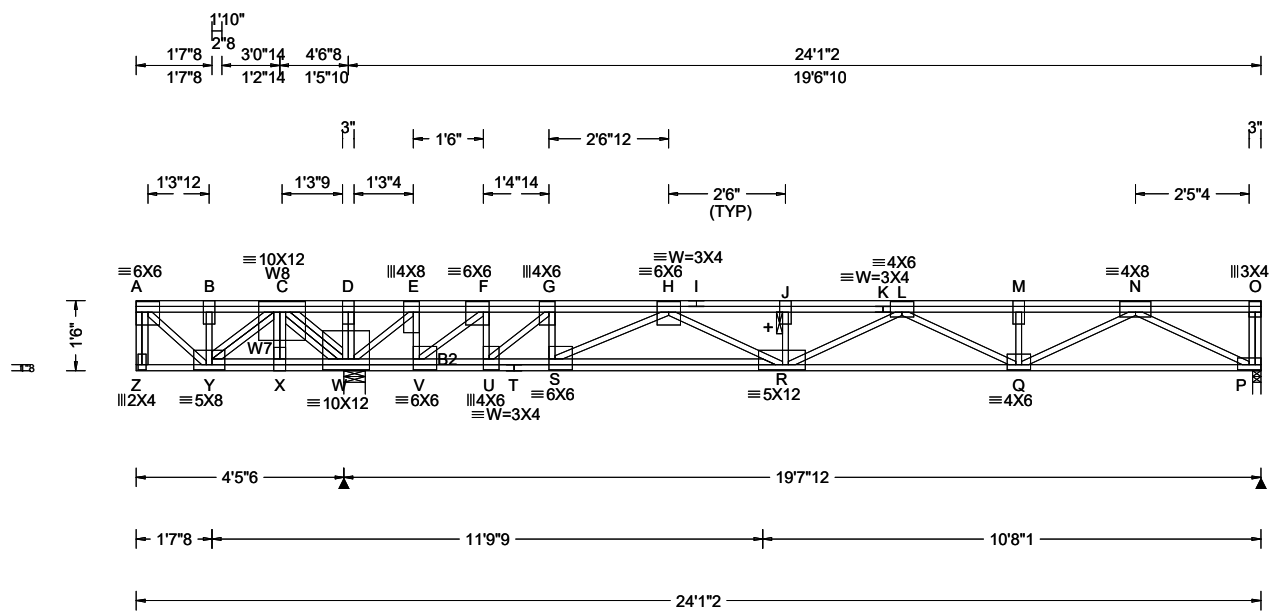
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Earth City, Missouri 63045

SEQN: 96795 / FROM:	SY42 Qty: 1	Ply: 2	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F18G	Cust: R9316 JRef: 1X193160001 T17 / DrwNo: 116.22.0934.26454 / NDW 04/26/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.124 Z 435 480 VERT(CL): 0.263 Z 408 360 HORZ(LL): -0.027 A - HORZ(TL): 0.058 A - Creep Factor: 2.0 Max TC CSI: 0.885 Max BC CSI: 0.247 Max Web CSI: 0.249 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL W 8317 -/- /- /- /- /- P 962 -/-165 /- /- /- /- W Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings W & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 420 0 H - I 1554 -1705 B - C 420 0 I - J 1554 -1705 C - D 4753 0 J - K 1551 -1711 D - E 4749 0 K - L 1551 -1711 E - F 4209 -367 L - M 534 -1347 F - G 3615 -827 M - N 534 -1347 G - H 3087 -1193

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7, W8 4x2 DF-L 2400f-2.0E;

Special Loads

---(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

Revised per BDC comment



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Y - X	0 - 1228	T - S	1169 - 3130
X - W	0 - 1219	S - R	1563 - 2265
W - V	329 - 4254	R - Q	1631 - 993
V - U	793 - 3663	Q - P	784 - 222
U - T	1169 - 3130		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - Y	0 - 548	G - S	539 0
Y - C	1053 0	S - H	0 - 1139
C - W	0 - 4787	H - R	869 0
W - E	0 - 999	R - L	89 - 626
E - V	636 0	L - Q	518 - 321
V - F	0 - 1035	Q - N	636 - 353
F - U	652 0	N - P	250 - 860
U - G	0 - 919		

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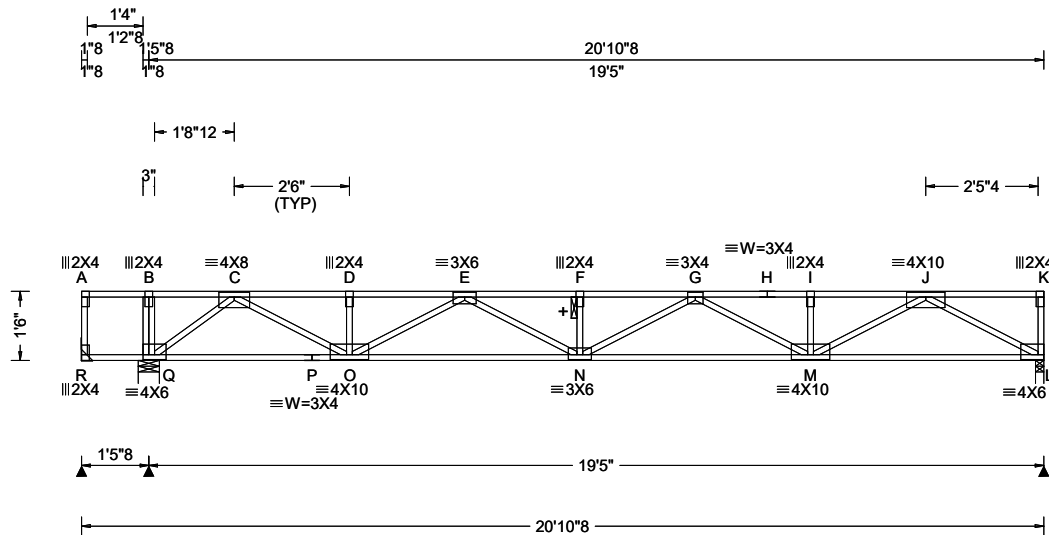
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Suite 242
Earth City, Missouri 63045

SEQN: 9778 /	SY42	Ply: 1	Job Number: JB-220685	Cust: R 9316 JRef: 1Xf193160001 T34 /
FROM:		Qty: 24	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 116.22.0934.26596
			Truss Label: F19	/ NDW 04/26/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.246 F 943 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.462 F 502 360	R 27 /-42 /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.038 L - -	Q 1134 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.072 L - -	L 962 /- /- /- /- /-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	R Brg Wid = - Min Req = -
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.485	Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.960	L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.397	Bearings Q & L are a rigid surface.
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Members not listed have forces less than 375#
	Loc. from endwall: NA	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	I: NA GCpi: NA			Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: NA	WAVE	VIEW Ver: 21.02.00.1005.17	

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCAMB1014 for camber recommendations.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

C - D	0 - 2320	G - H	0 - 2651
D - E	0 - 2320	H - I	0 - 2651
E - F	0 - 3393	I - J	0 - 2651
F - G	0 - 3393		

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.	Comp.	Webs	Tens. Comp.
Q - C	0	-1383	G - M	0 -654
C - O	1407	0	M - J	1233 0
O - E	0	-839	J - L	0 -1782
E - N	387	0		



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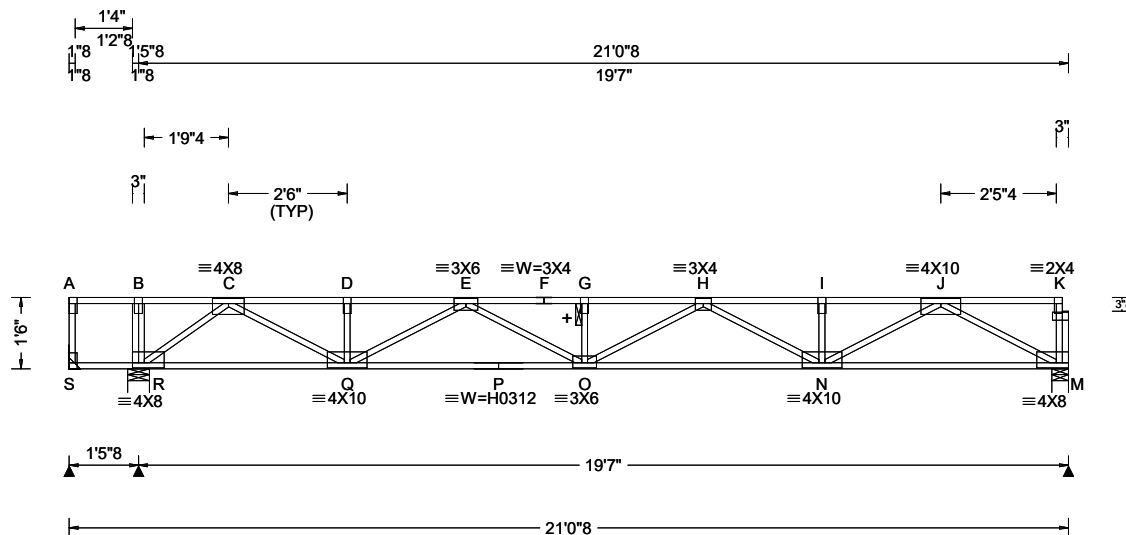
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SEQN: 9780 / FROM:	SY42 Qty: 6	Ply: 1 Qty: 6	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F19A	Cust: R 9316 JRef: 1Xf193160001 T21 / DrwNo: 116.22.0934.26817 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.245 G 948 480 VERT(CL): 0.459 G 505 360 HORZ(LL): 0.038 M - - HORZ(TL): 0.072 M - - Creep Factor: 2.0 Max TC CSI: 0.484 Max BC CSI: 0.955 Max Web CSI: 0.394 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 27 /-42 /- /- /- /- R 1133 /- /- /- /- /- M 979 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 4.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.22". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
R - Q	1110 0	O - N	3207 0
Q - P	3058 0	N - M	1535 0
P - O	3058 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
R - C	0 - 1398	H - N	0 - 664
C - Q	1397 0	N - J	1245 0
Q - E	0 - 829	J - M	0 - 1753
E - O	376 0		



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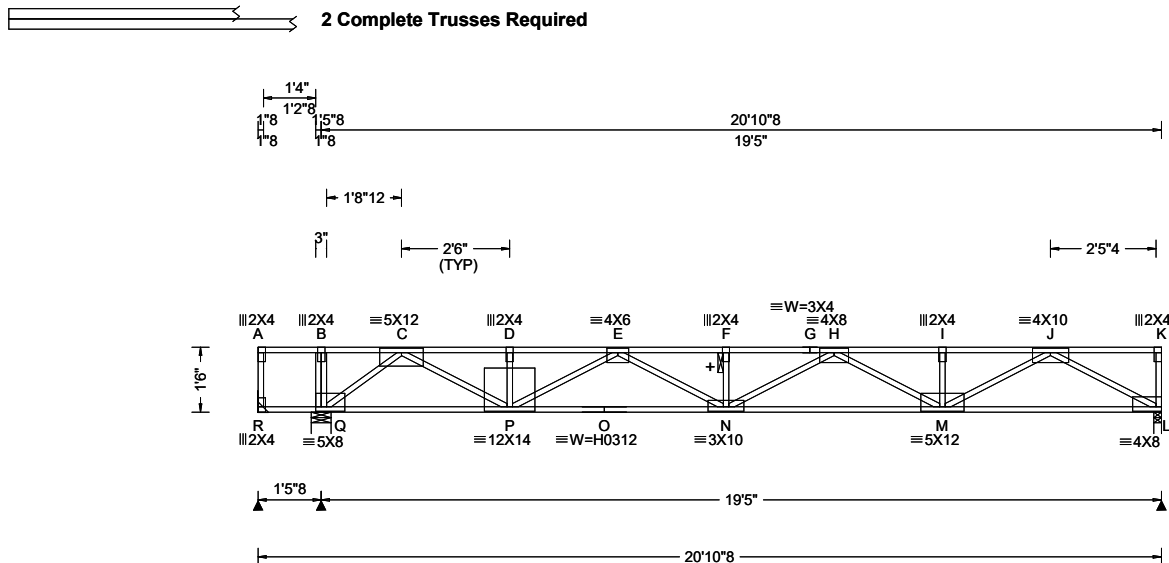
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Earth City, Missouri 63045

SEQN: 9782 /	SY42	Ply: 2	Job Number: JB-220685	Cust: R 9316 JRef: 1Xf193160001 T8 /
FROM:		Qty: 4	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 116.22.0934.26616
			Truss Label: F19G	/ NDW 04/26/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.290 F 799 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.545 F 426 360	R 24 /-58 /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.041 C - -	Q 3942 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.076 C - -	L 1997 /- /- /- /- /-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	R Brg Wid = - Min Req = -
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.583	Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.585	L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Varies by Ld Case	Max Web CSI: 0.629	Bearings Q & L are a rigid surface.
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Members not listed have forces less than 375#
	Loc. from endwall: NA	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	I: NA GCpi: NA	WAVE, HS	VIEW Ver: 21.02.00.1005.17	Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: NA			

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC:	From	87 plf at	0.00 to	87 plf at	20.88
BC:	From	13 plf at	0.00 to	13 plf at	20.88
TC:	443 lb Conc. Load at	0.94			
TC:	372 lb Conc. Load at	2.27, 3.60, 4.94, 6.27			
7.60, 8.94, 10.27, 11.60, 12.94					

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



04/26/2022

Maximum Bot Chord Forces Per Ply (lbs)					
Chords		Tens.Comp.	Chords		Tens. Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)				
Webbs	Tens.Comp.		Webbs	Tens. Comp.
B - Q	0	-465	F - N	0 -473
Q - C	0	-2340	N - H	753 0
C - P	2229	0	H - M	0 -1437
D - P	0	-467	M - J	1679 0
P - E	0	-1242	J - L	0 -1984

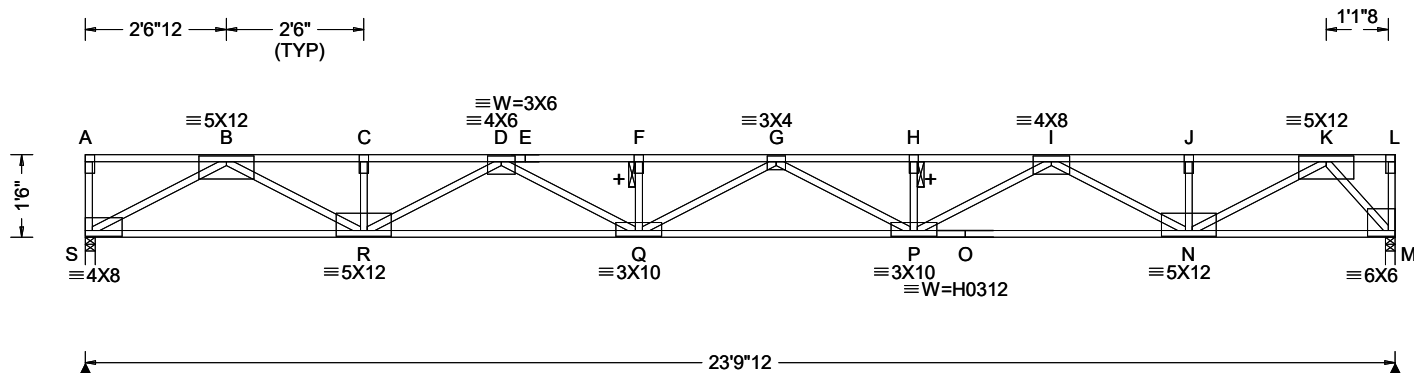
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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SEQN: 96797 / FROM:	SY42 Qty: 48	Ply: 1	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F21	Cust: R 9316 JRef: 1X193160001 T19 / DrwNo: 116.22.0934.25775 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.419 G 682 480 VERT(CL): 0.785 G 364 360 HORZ(LL): 0.056 M - - HORZ(TL): 0.104 M - - Creep Factor: 2.0 Max TC CSI: 0.442 Max BC CSI: 0.664 Max Web CSI: 0.556 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1191 /- /- /- /- /- M 1191 /- /- /- /- /- S Brg Wid = 2.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3491 G - H 0 - 4826 C - D 0 - 3491 H - I 0 - 4826 D - E 0 - 5062 I - J 0 - 2773 E - F 0 - 5062 J - K 0 - 2773 F - G 0 - 5062

Lumber

Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	1995	P - O	4000
R - Q	4479	O - N	4000
Q - P	5145	N - M	1047

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - B	0 - 2264	P - I	942
B - R	1707	I - N	0 - 1401
R - D	0 - 1127	N - K	1969
D - Q	665	K - M	0 - 1557



04/26/2022

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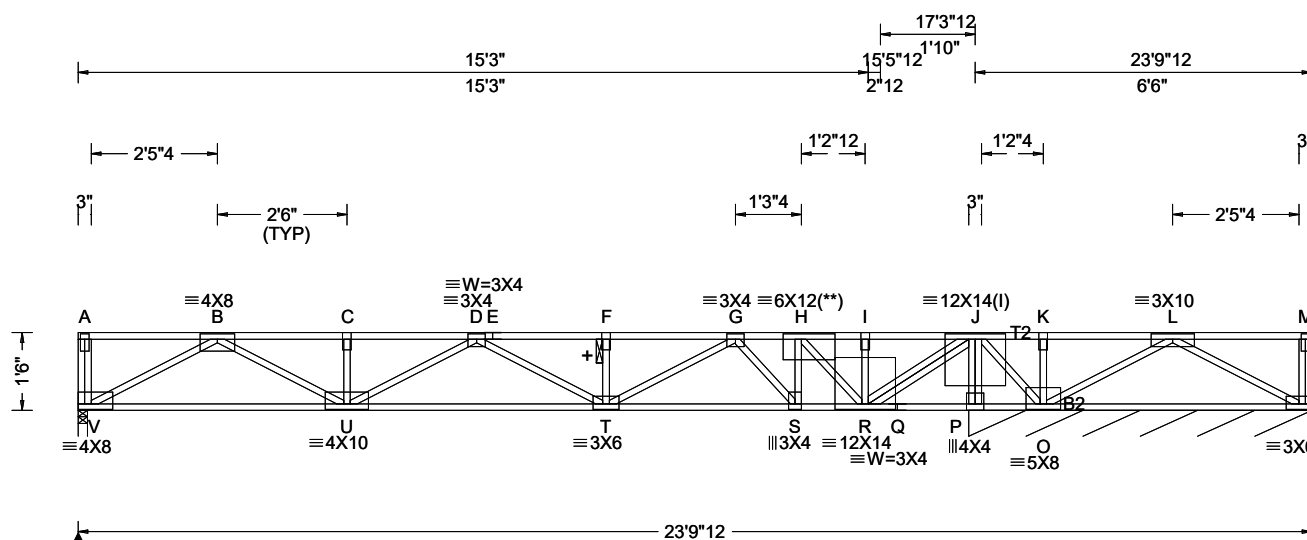
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SEQN: 96799 / FROM:	SY42 Qty: 3	Ply: 1 Qty: 3	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F22	Cust: R9316 JRef: 1X193160001 T2 / DrwNo: 116.22.0934.26555 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.179 F 999 480 VERT(CL): 0.335 F 613 360 HORZ(LL): 0.026 B - - HORZ(TL): 0.049 B - - Creep Factor: 2.0 Max TC CSI: 0.504 Max BC CSI: 0.472 Max Web CSI: 0.548 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL V 961 /- /- /- /- /- N* 441 /- /- /- /- /- N /-246 V Brg Wid = 2.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2565 G - H 0 -2521 C - D 0 -2565 H - I 0 -698 D - E 0 -3256 I - J 0 -698 E - F 0 -3256 J - K 1825 0 F - G 0 -3256 K - L 1825 0

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

——(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.81
BC: From 13 plf at 0.00 to 13 plf at 23.81
TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



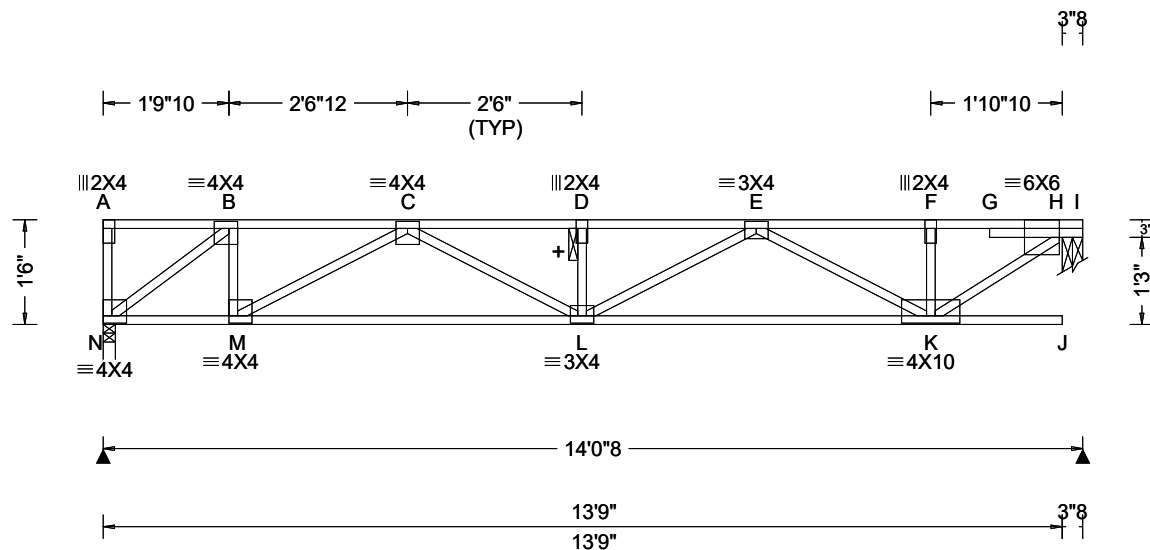
04/26/2022

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SEQN: 96801 / FROM:	SY42 Qty: 4	Ply: 1 Qty: 4	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F23	Cust: R9316 JRef: 1X193160001 T25 / DrwNo: 116.22.0934.26136 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.092 D 999 480 VERT(CL): 0.172 D 970 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.613 Max BC CSI: 0.522 Max Web CSI: 0.325 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 694 /- /- /- /- /- H 707 /- /- /- /- /- N Brg Wid = 2.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -869 E - F 0 -931 C - D 0 -1793 F - H 0 -930 D - E 0 -1793

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	831 0	L - K	1548 0
M - L	1525 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1045	E - K	0 -704
B - M	425 0	K - H	1152 0
M - C	0 -752		



04/26/2022

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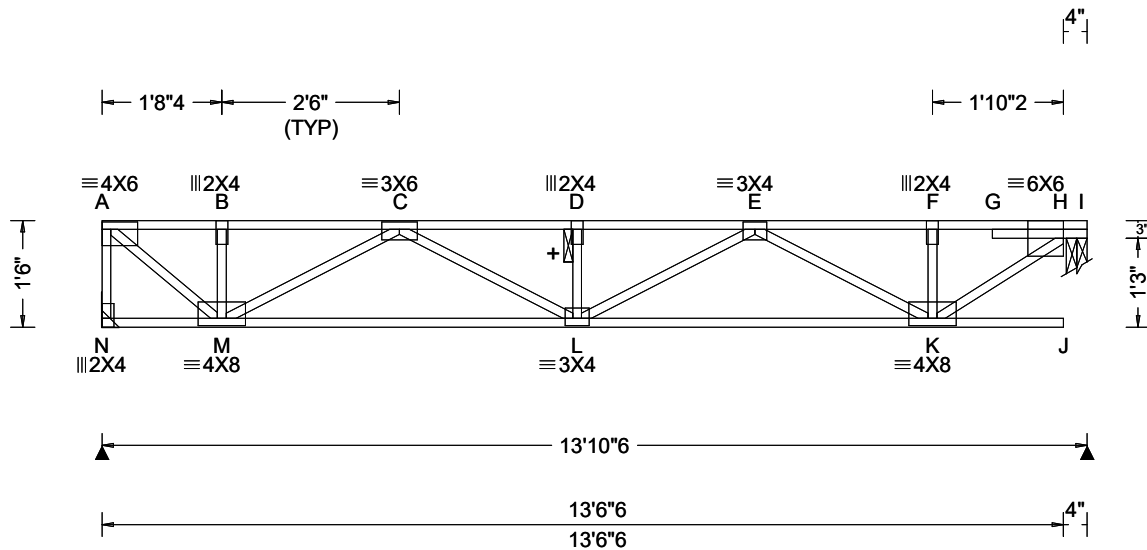
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SEQN: 96803 / FROM:	SY42 Qty: 4	Ply: 1 Qty: 4	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F24	Cust: R9316 JRef: 1X193160001 T3 / DrwNo: 116.22.0934.25793 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.090 D 999 480 VERT(CL): 0.167 D 982 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.604 Max BC CSI: 0.513 Max Web CSI: 0.320 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 685 /- /- /- /- /- H 697 /- /- /- /- /- N Brg Wid = - Min Req = - H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -776 D - E 0 -1749 B - C 0 -776 E - F 0 -917 C - D 0 -1749 F - H 0 -916

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1463 0	L - K	1518 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -684	E - K	0 -687
A - M	1001 0	K - H	1134 0
M - C	0 -784		



04/26/2022

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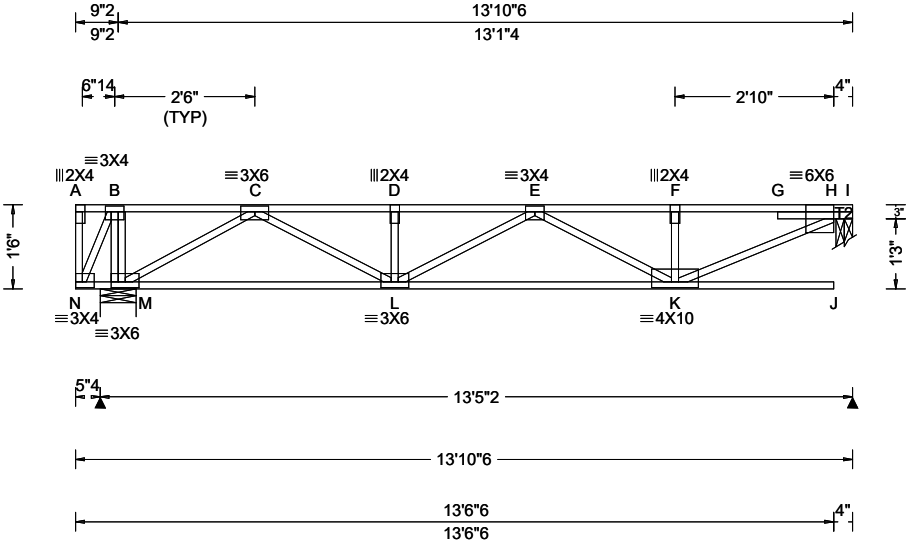
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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96805 / FROM:	SY42 Qty: 4	Ply: 1 Qty: 4	Job Number: JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F25	Cust: R9316 JRef:1Xf193160001 T11 / DrwNo: 116.22.0934.26366 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 J 784 480 VERT(CL): 0.316 J 488 360 HORZ(LL): 0.013 A - - HORZ(TL): 0.024 A - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.630 Max Web CSI: 0.367 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL M 729 /- /- /- /- /- H 659 /- /- /- /- /- M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 0 - 1447 E - F 0 - 1177 D - E 0 - 1447 F - H 0 - 1178 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 912 0 L - K 1482 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. M - C 0 - 1015 K - H 1301 0 C - L 614 0

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

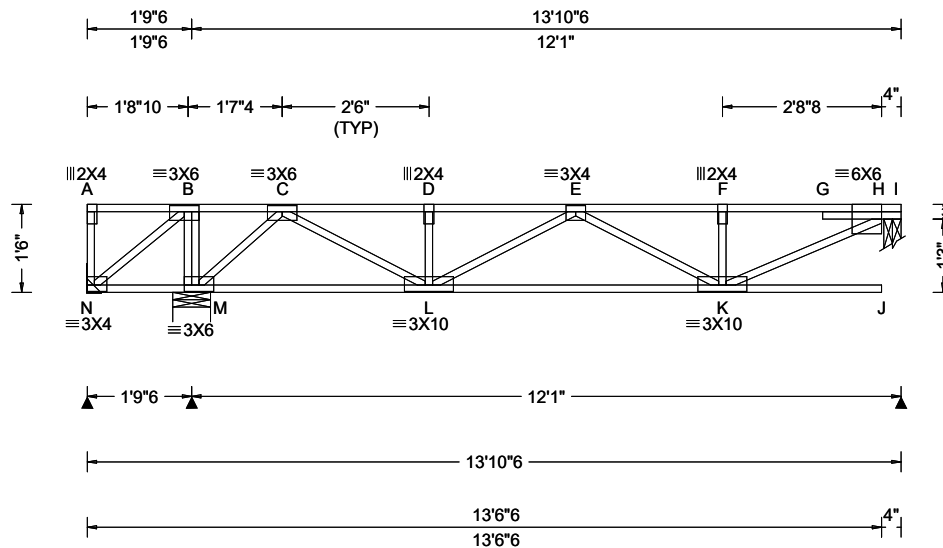
Truss must be installed as shown with top chord up.



04/26/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org	514 Earth City Expressway Suite 242 Earth City, Missouri 63045
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SEQN: 96807 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F26	Cust: R9316 JRef: 1X193160001 T5 / DrwNo: 116.22.0934.25842 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.158 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.284 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - / -358 / - / - / - / - M 1154 / - / - / - / - / - H 547 / - / - / - / - / - N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	0 -465	L - K	1035 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	596 0	C - L	815 0
B - M	0 -533	K - H	1005 0
M - C	0 -843		



04/26/2022

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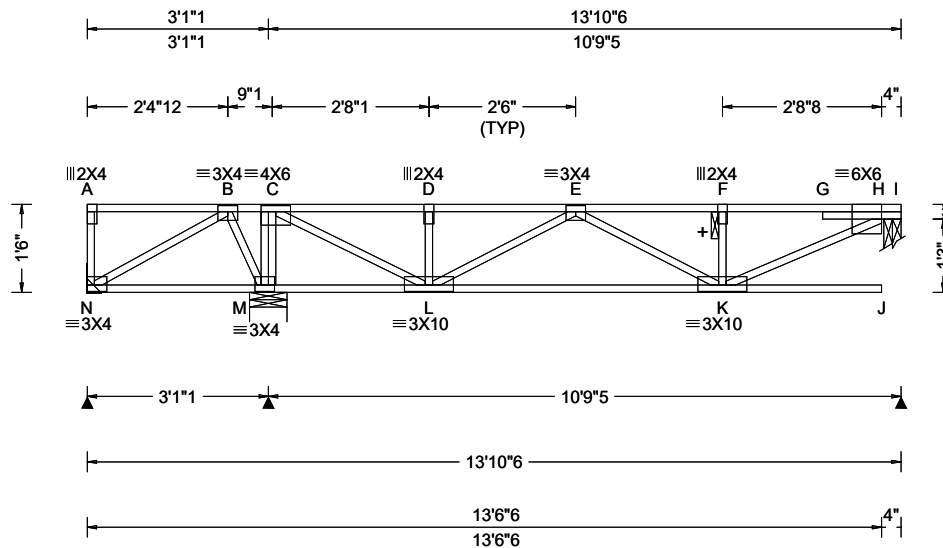
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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96809 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F27	Cust: R 9316 JRef: 1X193160001 T9 / DrwNo: 116.22.0934.25861 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 869 480 VERT(CL): 0.233 J 549 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.748 Max BC CSI: 0.436 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 44 /-139 /- /- /- /- M 963 /- /- /- /- /- H 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

L - K 815 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

M - C 0 -633 K - H 872 0
C - L 964 0



04/26/2022

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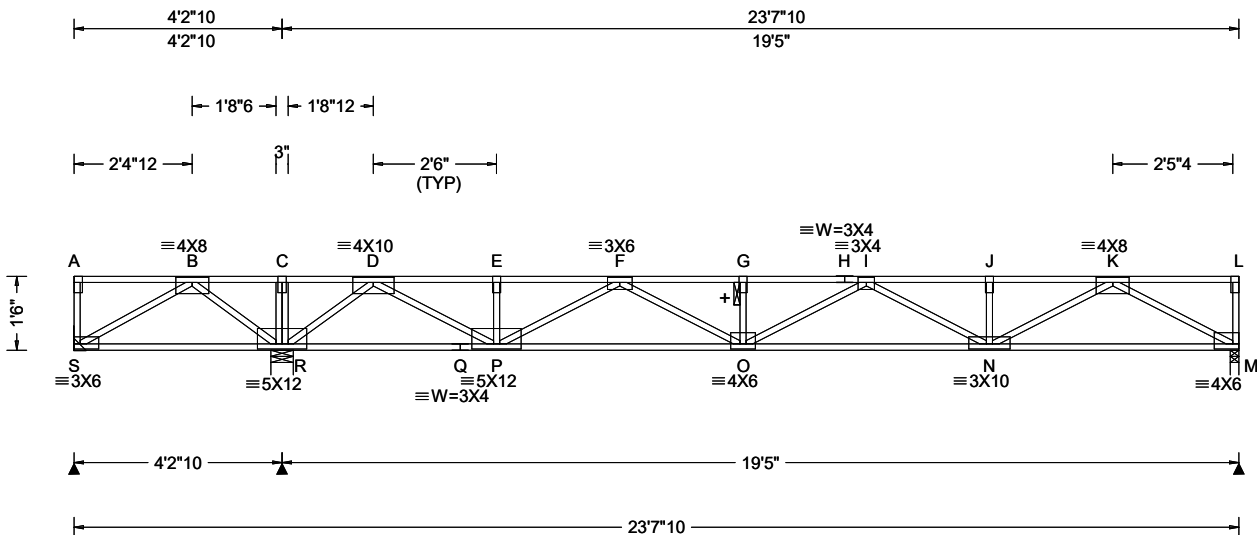
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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96811 / FROM:	SY42 Qty: 6	Ply: 1	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F28	Cust: R 9316 JRef: 1X193160001 T10 / DrwNo: 116.22.0934.25833 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.196 G 999 480 VERT(CL): 0.369 G 630 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.795 Max Web CSI: 0.467 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-490 /- /- /- /- R 1906 /- /- /- /- /- M 843 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Negative reaction(s) of -490# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	0 -944	P - O	1976 0
R - Q	0 -440	O - N	2573 0
Q - P	0 -440	N - M	1350 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - B	1088 0	F - O	633 0
B - R	0 -1142	I - N	0 -408
R - D	0 -1649	N - K	988 0
D - P	1656 0	K - M	0 -1532
P - F	0 -1087		



04/26/2022

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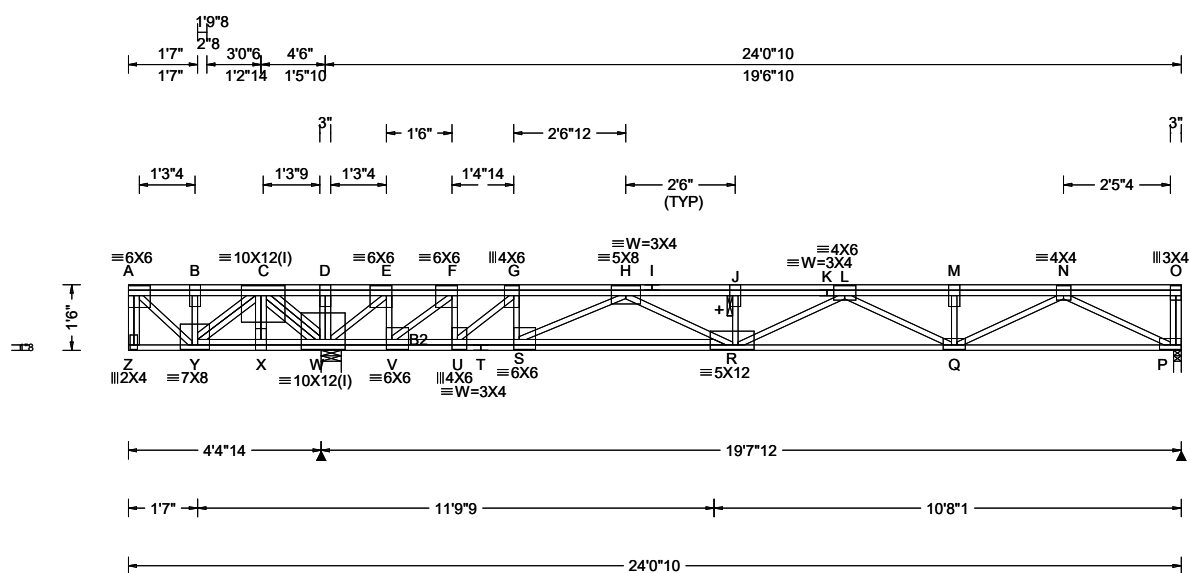
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SEQN: 96813 / FROM:	SY42 Qty: 3	Ply: 2 Qty: 3	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F28G	Cust: R 9316 JRef: 1Xf193160001 T12 / DrwNo: 116.22.0934.25795 / NDW 04/26/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.120 A 443 480 VERT(CL): 0.268 Z 396 360 HORZ(LL): -0.025 A - - HORZ(TL): 0.057 A - - Creep Factor: 2.0 Max TC CSI: 0.433 Max BC CSI: 0.260 Max Web CSI: 0.271 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL W 8750 -/- /- /- /- /- P 618 -/-243 /- /- /- /- W Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings W & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 597 0 H - I 1855 -383 B - C 597 0 I - J 1855 -383 C - D 5342 0 J - K 1853 -389 D - E 5337 0 K - L 1853 -389 E - F 4767 0 L - M 685 -689 F - G 4126 0 M - N 685 -689 G - H 3551 0

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

---(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

Revised Per BDC comment



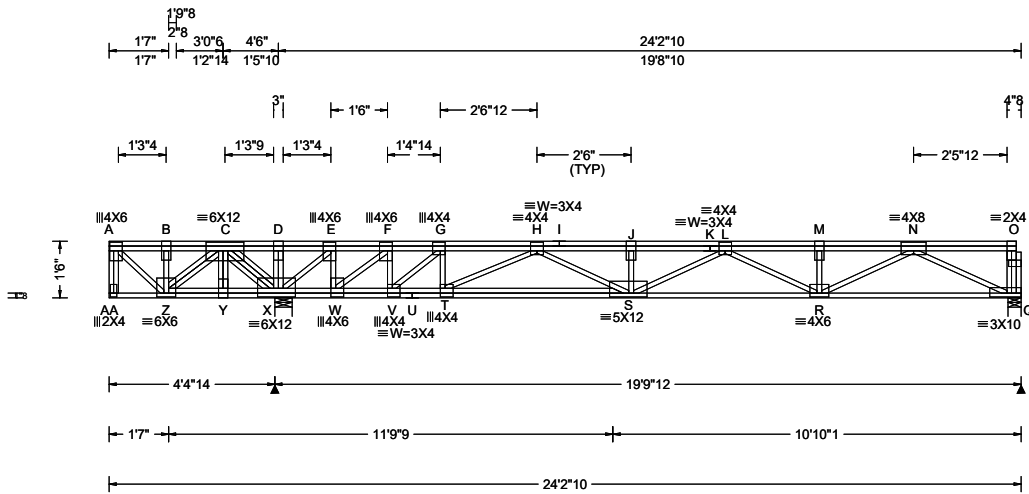
04/26/2022

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SEQN: 96825 / FROM:	SY42 Qty: 1	Ply: 2	Job Number: JB-220685 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F29G	Cust: R 9316 JRef: 1Xf193160001 T27 / DrwNo: 116.22.0934.26869 / NDW 04/26/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.094 L 999 480 VERT(CL): 0.183 J 999 360 HORZ(LL): 0.014 Q - - HORZ(TL): 0.029 Q - - Creep Factor: 2.0 Max TC CSI: 0.108 Max BC CSI: 0.506 Max Web CSI: 0.191 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL X 1475 -/- /- /- /- /- Q 974 -/- /- /- /- /- X Brg Wid = 5.5 Min Req = 1.5 (Truss) Q Brg Wid = 4.1 Min Req = 1.5 (Truss) Bearings X & Q are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 375 0 I - J 0 -1744 E - F 101 -392 J - K 0 -1750 F - G 0 -854 K - L 0 -1750 G - H 0 -1223 L - M 0 -1395 H - I 0 -1744 M - N 0 -1395

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 3X6 except as noted.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
W - V	820 0	T - S	1596 0
V - U	1199 0	S - R	1672 0
U - T	1199 0	R - Q	841 0

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
X - E	0 -684	T - H	0 -452
E - W	397 0	R - N	626 0
W - F	0 -599	N - Q	0 -938
V - G	0 -501		



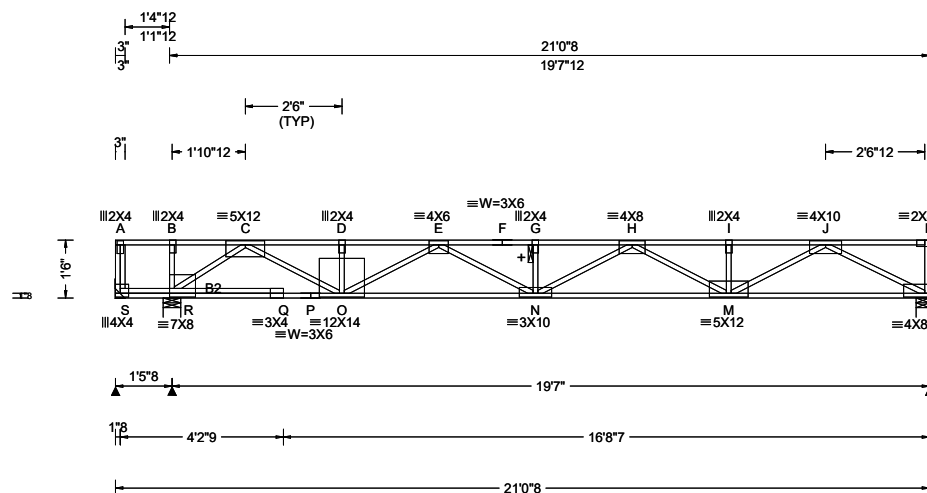
04/26/2022

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Suite 242
Earth City, Missouri 63045

SEQN: 9785 / FROM:	SY42 Qty: 1	Ply: 2	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F30G	Cust: R9316 JRef: 1Xf193160001 T22 / DrwNo: 116.22.0934.26843 / NDW 04/26/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.316 G 741 480 VERT(CL): 0.593 G 395 360 HORZ(LL): 0.043 C - - HORZ(TL): 0.080 C - - Creep Factor: 2.0 Max TC CSI: 0.658 Max BC CSI: 0.747 Max Web CSI: 0.609 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 23 -/-94 -/- -/- -/- R 3996 -/- -/- -/- -/- L 1984 -/- -/- -/- -/- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 4.1 Min Req = 1.5 (Truss) Bearings R & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

——(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.92
BC: From 13 plf at 0.00 to 13 plf at 21.04
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27
7.60, 8.94, 10.27, 11.60, 12.94

Deflection

Max JT VERT DEFL: LL: 0.31" DL: 0.27". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

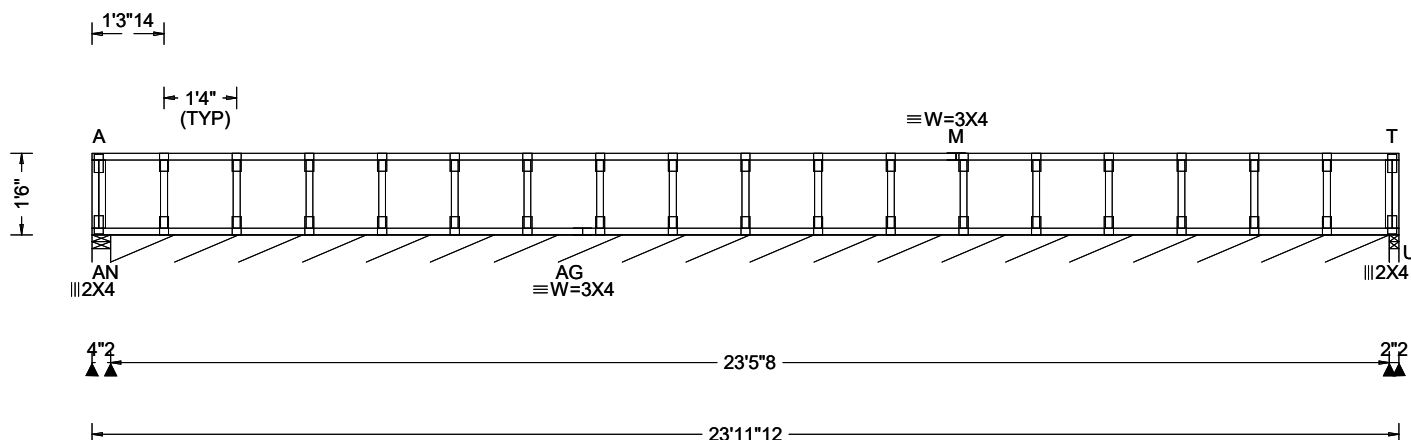


04/26/2022

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ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96815 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: L11	Cust: R 9316 JRef: 1X193160001 T29 / DrwNo: 116.22.0934.26285 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.001 T 999 360 HORZ(LL): -0.003 B - - HORZ(TL): 0.005 B - - Creep Factor: 2.0 Max TC CSI: 0.060 Max BC CSI: 0.013 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity AN 68 -/- /- /- /- /- AN*97 -/- /- /- /- /- U 64 -/- /- /- /- /- AN Brg Wid = 4.1 Min Req = 1.5 (Truss) AN Brg Wid = 281 Min Req = - U Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AN, AN, & U are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



04/26/2022

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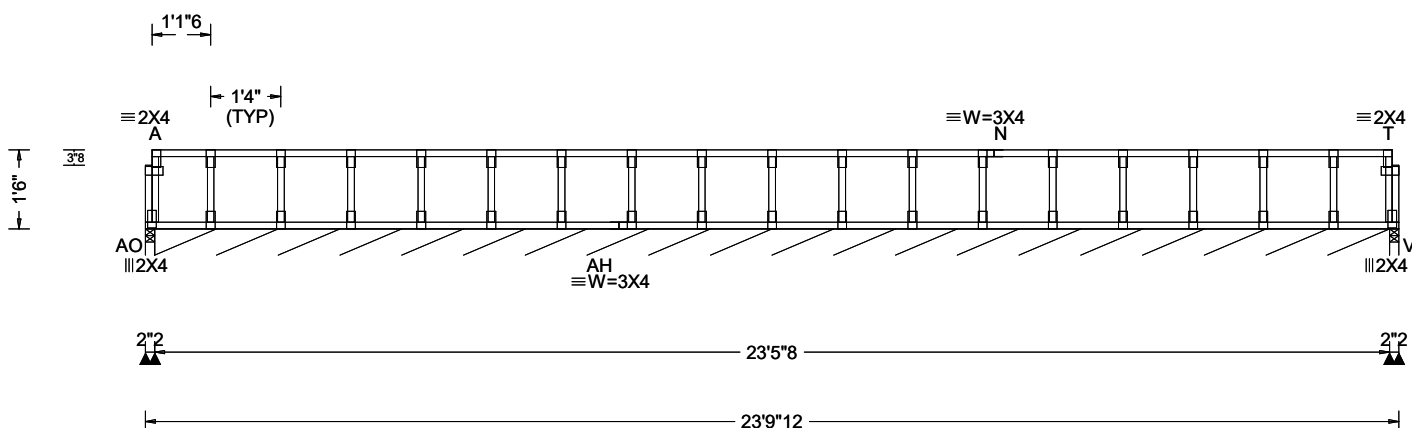
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AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96817 / FROM:	SY42 Qty: 3	Ply: 1 Qty: 3	Job Number: JB-220685 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: L21	Cust: R 9316 JRef: 1Xf193160001 T30 / DrwNo: 116.22.0934.26342 / NDW 04/26/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.000 T 999 360 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.009 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL AO 48 - / - / - / - / - AO*97 - / - / - / - / - V 48 - / - / - / - / - AO Brg Wid = 2.1 Min Req = 1.5 (Truss) AO Brg Wid = 281 Min Req = - V Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AO, AO, & V are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.



04/26/2022

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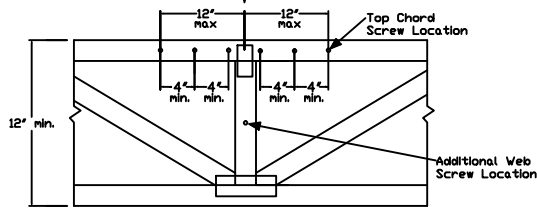
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514 Earth City Expressway
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Earth City, Missouri 63045

System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

Max. Concentrated Load per Chart Below

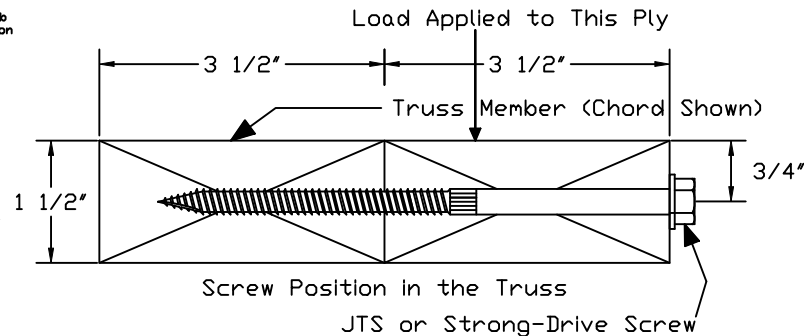


Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

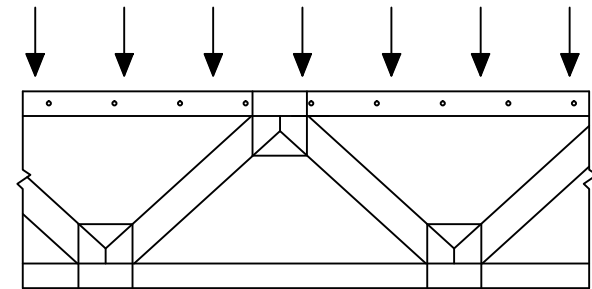
For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

Refer to Alpine sealed drawing for individual truss design.



Max. Uniform Load per Chart Below



For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200



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ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	REF	SY42 Connection
TC DL	PSF	DATE	01/19/2018
BC DL	PSF	DRWG	CNSY42PL0118
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



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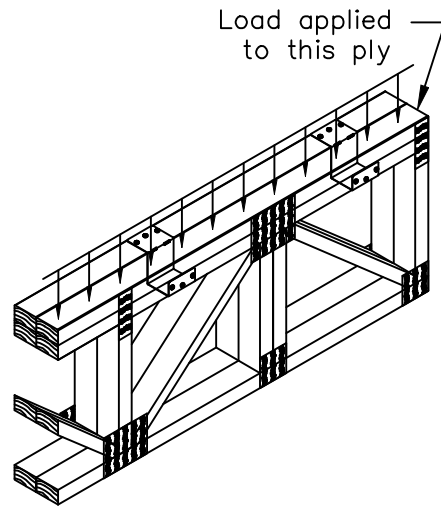
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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL FOR DOWNWARD LOADS ONLY

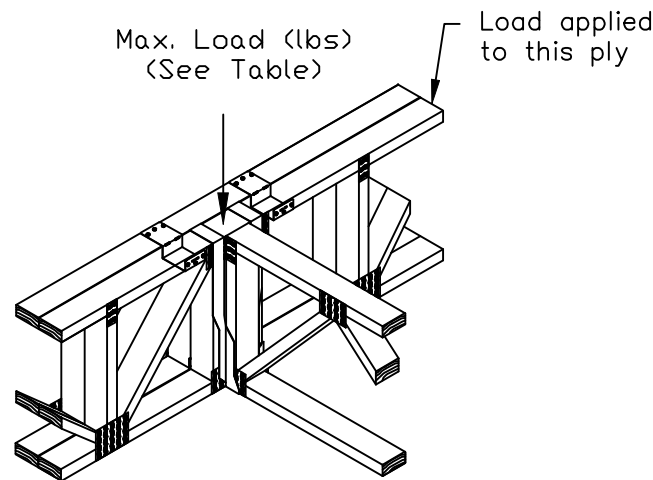
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application

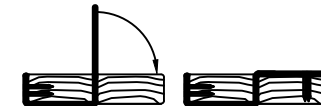


Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.
2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.

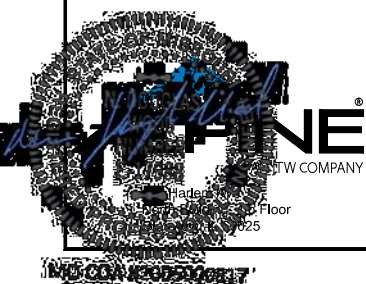


LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

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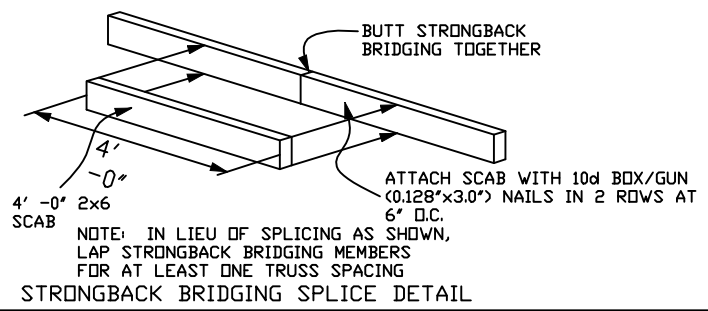
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REF SY42 Connection
DATE 10/01/14
DRWG LSCSYX2A1014

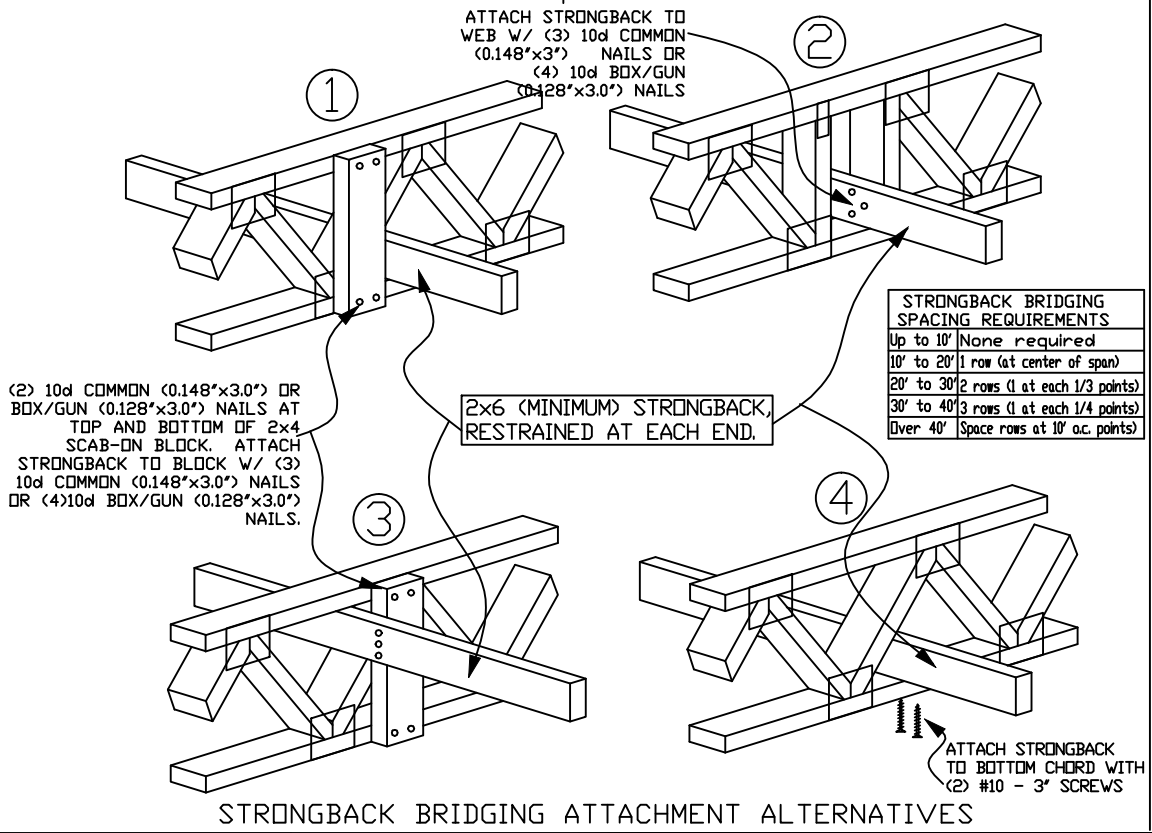
DUR. FAC. ALL

STRONGBACK BRIDGING RECOMMENDATIONS



- ▶ All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- ▶ All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- ▶ The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- ▶ The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).



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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.
A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com TPI: www.tpinst.org SBCA: www.sbcacomponents.com ICC: www.iccsafe.org

TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			



Alpine, an ITW company
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Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/27/2022

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220686
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00
	JRef #: 1Xf293160008
Wind Standard: ASCE 7-16	Wind Speed (mph): 109
Building Type: Closed	Design Loading (psf): 60.00

This package contains general notes pages, 88 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	117.22.1504.07917	J02	2	117.22.1504.16910	J02G
3	117.22.1504.22433	J03	4	117.22.1504.43887	T01
5	117.22.1504.49280	T02	6	117.22.1505.02613	T03
7	117.22.1505.11927	T04	8	117.22.1505.18727	T05
9	117.22.1505.36320	T06	10	117.22.1505.42457	T07
11	117.22.1505.49770	T08	12	117.22.1506.39090	T10
13	117.22.1506.44380	T12	14	117.22.1506.54163	T13
15	117.22.1506.59320	T14	16	117.22.1510.13493	T15
17	117.22.1510.33810	T17	18	117.22.1510.39090	T18
19	117.22.1510.43380	T19	20	117.22.1510.46440	T20
21	117.22.1510.51460	T21	22	117.22.1510.55853	T22
23	117.22.1511.00170	T23	24	117.22.1511.04810	T24
25	117.22.1511.13503	T25	26	117.22.1512.03240	T26
27	117.22.1512.09397	T27	28	117.22.1512.13720	T28
29	117.22.1512.18627	T29	30	117.22.1512.23313	T30
31	117.22.1512.29580	T31	32	117.22.1512.50097	T33
33	117.22.1512.56100	T34	34	117.22.1513.00910	T35
35	117.22.1513.04643	T36	36	117.22.1513.09773	T37
37	117.22.1513.15000	T38	38	117.22.1513.20640	T39
39	117.22.1513.28917	T40	40	117.22.1513.35987	T41
41	117.22.1513.49013	T42	42	117.22.1513.57637	T43
43	117.22.1514.03177	T44	44	117.22.1514.10500	T45
45	117.22.1514.14993	T46	46	117.22.1514.18603	T47
47	117.22.1514.23170	T48	48	117.22.1514.30670	T49
49	117.22.1514.34290	T50	50	117.22.1514.37540	T51



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 alpineitw.com

04/27/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	Job Number: JB-220686
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	117.22.1514.44333	T52
53	117.22.1515.05987	TGE02
55	117.22.1515.13693	TGE04
57	117.22.1515.19443	TGE06
59	117.22.1515.25170	TGE08
61	117.22.1515.31420	TGE10
63	117.22.1515.37227	TGE12
65	117.22.1515.43257	TGE14
67	117.22.1515.50400	TGE16
69	117.22.1515.58287	TGE18
71	117.22.1516.06280	TGE20
73	117.22.1516.14890	TGE22
75	117.22.1510.23493	T16
77	117.22.1512.41580	T32
79	117.22.1506.14687	T09A
81	117.22.1514.26283	T48A
83	117.22.1516.36093	TGE27
85	117.22.1506.05530	T09
87	117.22.1504.12163	J02A
89	A11530ENC160118	
91	GBLLETIN0118	
93	DEFLCAMB1014	

Item	Drawing Number	Truss
52	117.22.1514.48587	TGE01
54	117.22.1515.10613	TGE03
56	117.22.1515.16750	TGE05
58	117.22.1515.22490	TGE07
60	117.22.1515.28193	TGE09
62	117.22.1515.34563	TGE11
64	117.22.1515.40100	TGE13
66	117.22.1515.46513	TGE15
68	117.22.1515.54067	TGE17
70	117.22.1516.03073	TGE19
72	117.22.1516.11080	TGE21
74	117.22.1516.20030	TGE23
76	117.22.1512.35983	T32
78	117.22.1510.29380	T16
80	117.22.1506.22637	T09B
82	117.22.1516.29533	TGE26
84	117.22.1505.56650	T08
86	117.22.1516.24317	TGE24
88	117.22.1516.27373	TGE25
90	GABRST160118	
92	BRCLBSUB0119	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)**Key to Terms:**

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

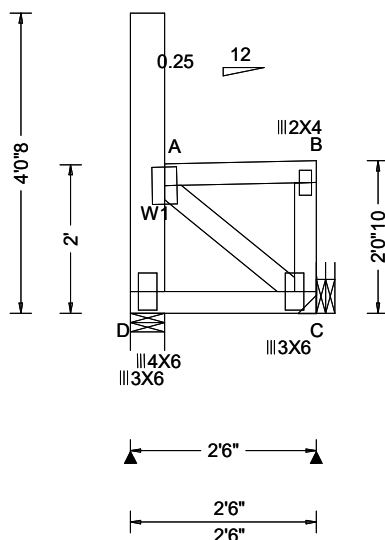
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

SEQN: 34013 FROM:	MONO Ply: 1 Qty: 30	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: J02	Cust: R 9316 JRef: 1X1293160008 T193 DrwNo: 117.22.1504.07917 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.03 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.103 Max BC CSI: 0.066 Max Web CSI: 0.131 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL D 134 /- /- /101 /79 /90 C 160 /- /- /144 /63 /- Non-Gravity Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. A - C 238 -387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	2.03	30.67 2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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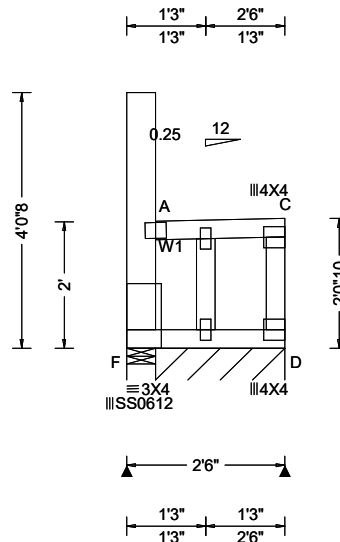
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34015 FROM:	GABL Ply: 1 Qty: 3	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: J02G	Cust: R 9316 JRef: 1X1293160008 T109 DrwNo: 117.22.1504.16910 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.03 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): 18SS, WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 A 999 360 VERT(CL): 0.007 A 999 240 HORZ(LL): 0.091 A - - HORZ(TL): 0.104 A - - Creep Factor: 2.0 Max TC CSI: 0.128 Max BC CSI: 0.370 Max Web CSI: 0.163 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 42 - / - / 118 / 145 / 98 D* 124 - / - / 120 / 57 - Wind reactions based on MWFRS F Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 24.5 Min Req = - Bearings F & F are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, &
GABRST160118 for gable wind bracing and other
requirements.

Truss must be installed as shown with top chord up.



04/27/2022

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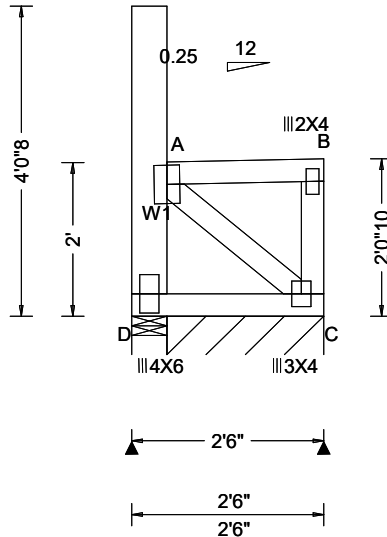
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34016 FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: J03	Cust: R 9316 JRef: 1X1293160008 T133 DrwNo: 117.22.1504.22433 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.03 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.103 Max BC CSI: 0.066 Max Web CSI: 0.105 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 134 /- /- /110 /85 /98 C* 79 /- /- /72 /33 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = 24.5 Min Req = - Bearings D & D are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

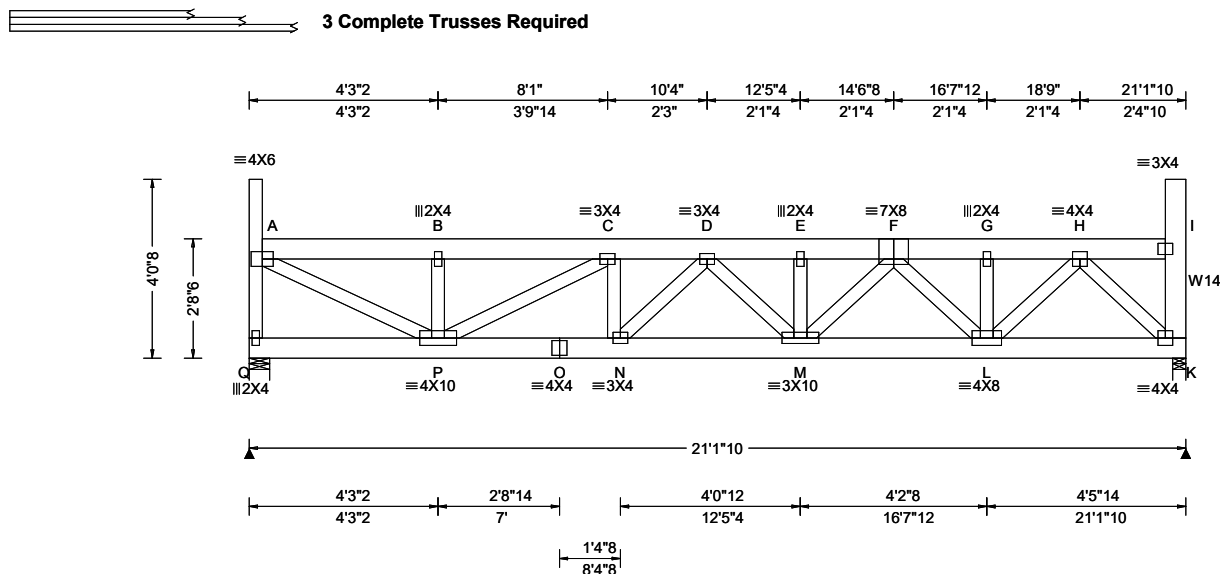


04/27/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34100	FLAT	Ply: 3	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T10
FROM:		Qty: 2	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 117.22.1504.43887
			Truss Label: T01	/ NDW 04/27/2022



Leading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.060 D 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.102 D 999 240	Q 1828 /- /- /- /117 /-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.014 K - -	K 2145 /- /- /- /150 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.024 K - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.70 ft	Building Code:	Creep Factor: 2.0	Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.049	K Brg Wid = 3.5 Min Req = 1.5 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.262	Bearings Q & K are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.269	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	A - B 68 -1022 E - F 154 -2045

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2: W14 2x6 SPF 1650f-1.5E:

Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 10.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal
spacing between rows and stagger nails in each row
to avoid splitting.

Special Loads
 ——(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 70 plf at 0.29 to 70 plf at 20.68
 BC: From 50 plf at 0.00 to 50 plf at 21.14
 BC: 1489 lb Conc. Load at 12.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carving/tie-in member depth and/or width.

▲ Maximum Reactions (lbs)							
Loc	Gravity			Non-Gravity			
	R+ / R-	/ Rh	/ Rw	/ U	/ RL		
Q	1828	/-	/-	/-	/117	/-	
K	2145	/-	/-	/-	/150	/-	
Wind reactions based on MWFRS							
Q	Brg Wid = 5.5		Min Req = 1.5 (Truss)				
K	Brg Wid = 3.5		Min Req = 1.5 (Truss)				
Bearings Q & K are a rigid surface.							
Members not listed have forces less than 375#							
Maximum Top Chord Forces Per Ply (lbs)							
Chords		Tens.Comp.		Chords		Tens. Comp.	
A - B		68 - 1022		E - F		154 - 2045	
B - C		67 - 1018		F - G		93 - 1282	
C - D		115 - 1654		G - H		93 - 1282	
D - E		154 - 2045					

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
P - O	1617	- 112	M - L	1696	- 125
O - N	1617	- 112	L - K	710	- 51
N - M	1870	- 135			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.		Webs	Tens. Comp.	
Q - A	37	-575	F - L	47	-605
A - P	1096	-73	L - H	835	-62
P - C	52	-695	H - K	69	-963
M - F	509	-42			



04/27/2022

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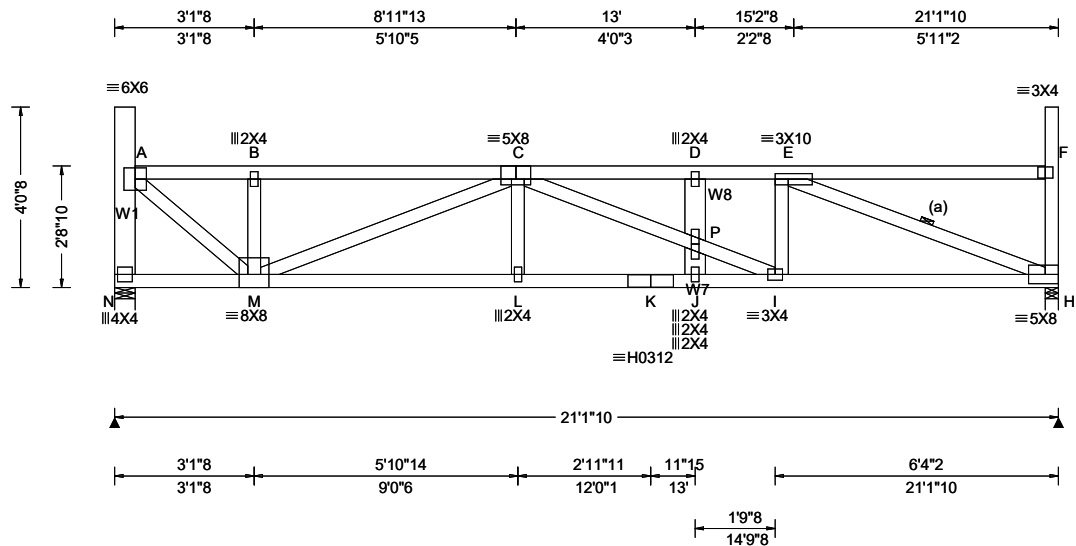
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ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34017 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T02	Cust: R 9316 JRef: 1X1293160008 T1 DrwNo: 117.22.1504.49280 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.155 D 999 360 VERT(CL): 0.266 D 953 240 HORZ(LL): 0.046 H - - HORZ(TL): 0.079 H - - Creep Factor: 2.0 Max TC CSI: 0.427 Max BC CSI: 0.928 Max Web CSI: 0.991 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1234 - / - / - / 534 / 72 / 120 H 1246 - / - / - / 539 / 74 / - Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 1.9 (Truss) H Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 136 - 1501 C - D 137 - 2445 B - C 136 - 1498 D - E 137 - 2445

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



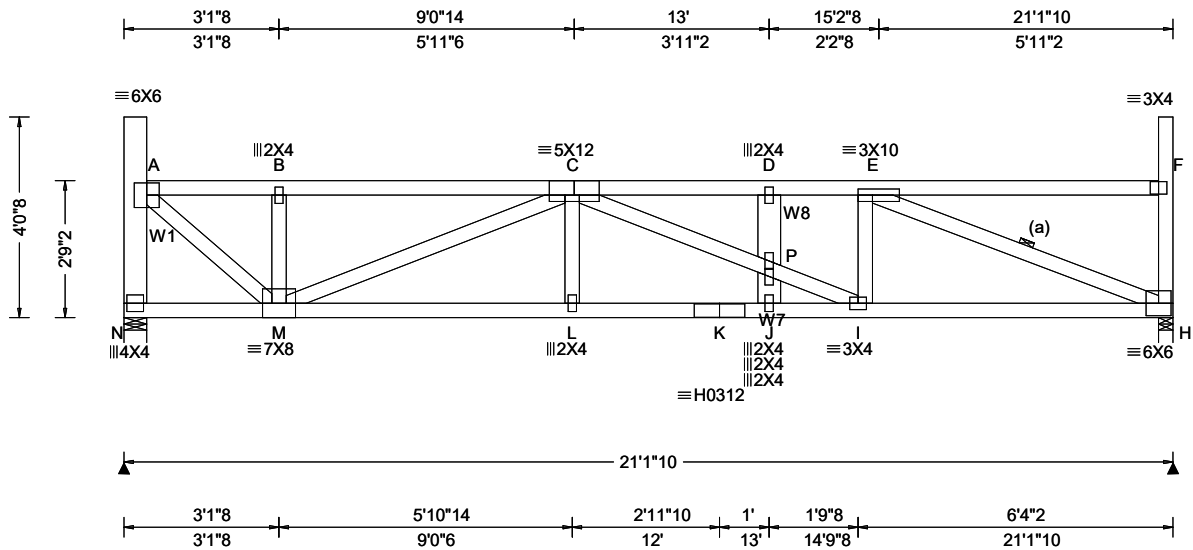
04/27/2022

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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34018 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T03	Cust: R 9316 JRef: 1X1293160008 T2 DrwNo: 117.22.1505.02613 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.76 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.151 D 999 360 VERT(CL): 0.249 D 999 240 HORZ(LL): 0.045 H - - HORZ(TL): 0.078 H - - Creep Factor: 2.0 Max TC CSI: 0.427 Max BC CSI: 0.921 Max Web CSI: 0.985 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1236 - / - / - /534 /73 /119 H 1248 - / - / - /539 /75 - /- Non-Gravity Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 1.9 (Truss) H Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 134 - 1478 C - D 136 - 2408 B - C 134 - 1475 D - E 136 - 2408 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 2766 - 235 J - I 2766 - 235 L - K 2766 - 235 I - H 2346 - 153 K - J 2766 - 235 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - A 77 - 1192 P - I 93 - 713 A - M 1771 - 115 I - E 525 - 3 M - C 126 - 1399 E - H 164 - 2492 C - P 92 - 694

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.28 11.74 2.83
20.84 0.00 20.39 1.28 11.74 2.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



04/27/2022

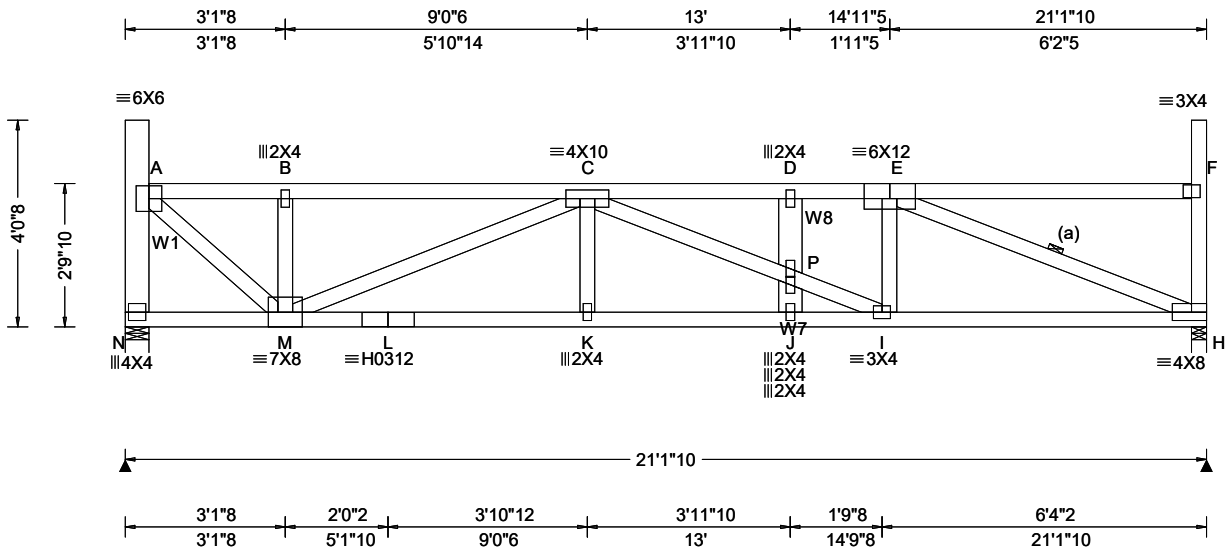
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34019 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T04	Cust: R 9316 JRef: 1X1293160008 T3 DrwNo: 117.22.1505.11927 / NDW 04/27/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)										
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in	loc L/def L/#		Gravity			Non-Gravity					
TCDL:	15.00	Speed:	109 mph	Pf: 15.4		Ce: 1.0	VERT(LL):	0.147	D	999	360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00		VERT(CL):	0.242	D	999	240	N	1236	/-	/-	/534	/73	/118
BCDL:	10.00	Risk Category:	II	Snow Duration:	1.15		HORZ(LL):	0.045	H	-	-	H	1248	/-	/-	/538	/75	/-
Des Ld:	60.00	EXP:	B Kzt: NA				HORZ(TL):	0.076	H	-	-	Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height:	21.80 ft			Building Code:	Creep Factor:	2.0				N	Brg Wid = 5.5	Min Req = 1.9	(Truss)			
Soffit:	2.00	TCDL:	5.0 psf			IBC 2018	Max TC CSI:	0.438				H	Brg Wid = 3.5	Min Req = 2.0	(Truss)			
Load Duration:	1.15	BCDL:	3.0 psf			TPI Std: 2014	Max BC CSI:	0.913				Bearings N & H are a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2			Rep Fac: Yes	Max Web CSI:	0.979				Members not listed have forces less than 375#						
		C&C Dist a:	3.00 ft			FT/RT:20(0)/10(0)						Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall:	Any			Plate Type(s):						Chords	Tens.Comp.	Chords	Tens. Comp.			
		GCpi:	0.18									A - B	132 - 1454	C - D	159 - 2365			
		Wind Duration:	1.60			WAVE, HS						B - C	134 - 1450	D - E	159 - 2365			
												VIEW Ver: 21.02.00.1005.17						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.24 10.35 2.50
20.84 0.00 20.39 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

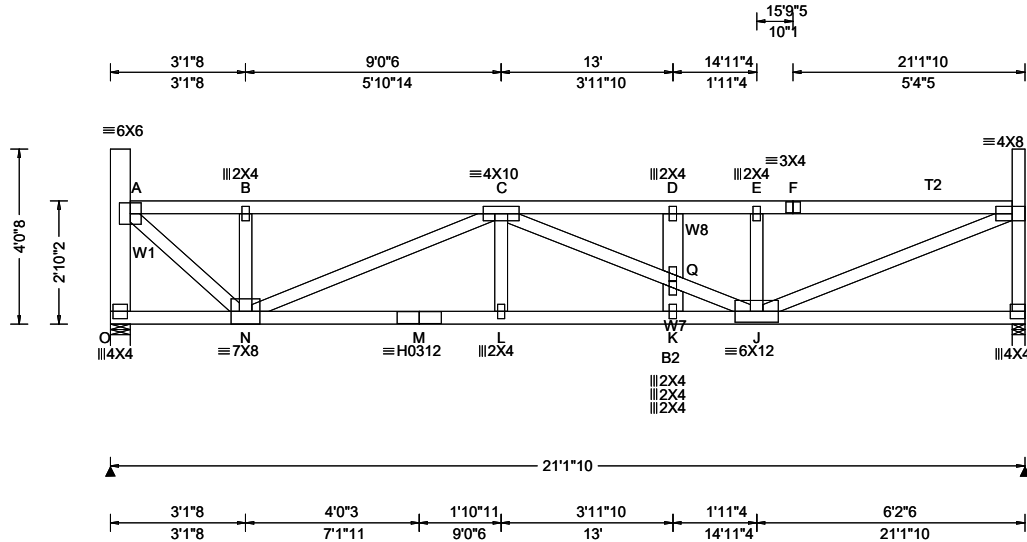


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SEQN: 34090 FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T05	Cust: R 9316 JRef: 1X1293160008 T11 DrwNo: 117.22.1505.18727 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.84 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.133 D 999 360 VERT(CL): 0.228 D 999 240 HORZ(LL): 0.032 A - - HORZ(TL): 0.054 A - - Creep Factor: 2.0 Max TC CSI: 0.501 Max BC CSI: 0.806 Max Web CSI: 0.977 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL O 1236 - / - / - / 533 / 73 / 117 I 1248 - / - / - / 538 / 75 / - Wind reactions based on MWFRS O Brg Wid = 5.5 Min Req = 1.9 (Truss) I Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings O & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 130 - 1427 D - E 158 - 2312 B - C 129 - 1424 E - F 157 - 2308 C - D 158 - 2312 F - G 159 - 2317

Lumber
Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.20 8.97 2.16
20.84 0.00 20.39 1.20 8.97 2.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS.
End verticals exposed to wind pressure. Deflection
meets L/360.

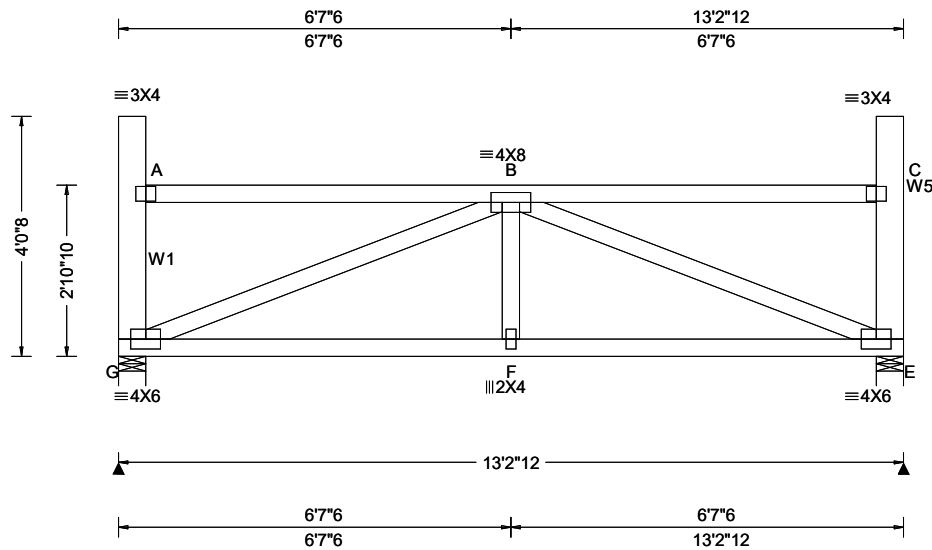
Additional Notes
Truss must be installed as shown with top chord up.



04/27/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org	ALPINE AN ITW COMPANY 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 34020 FROM:	SPEC Qty: 3	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T06	Cust: R 9316 JRef: 1X1293160008 T5 DrwNo: 117.22.1505.36320 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.89 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.043 F 999 360 VERT(CL): 0.074 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.026 E - - Creep Factor: 2.0 Max TC CSI: 0.550 Max BC CSI: 0.642 Max Web CSI: 0.986 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 762 /- /- /341 /56 /115 E 762 /- /- /341 /56 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1210 -165 F - E 1210 -165

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W5 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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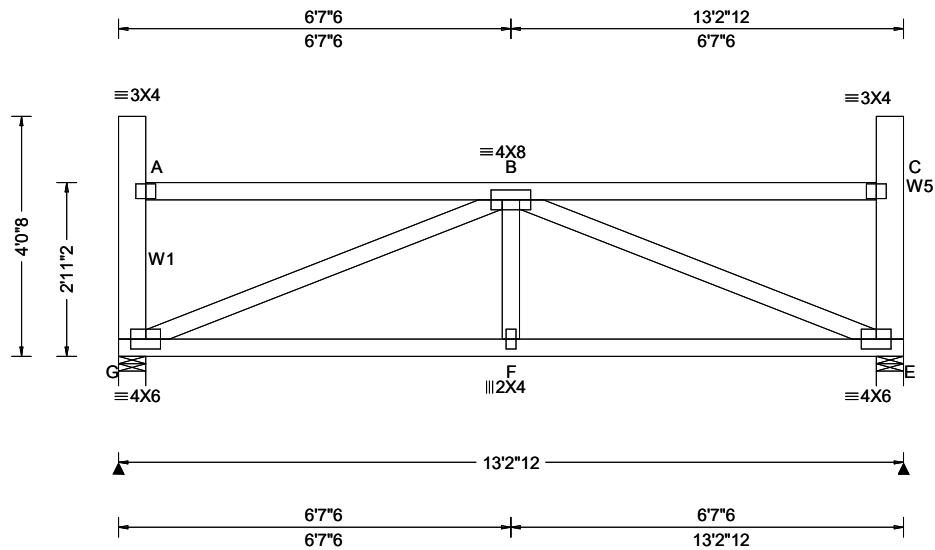
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34021 FROM:	FLAT Qty: 3	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T07	Cust: R 9316 JRef: 1X1293160008 T6 DrwNo: 117.22.1505.42457 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.93 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.042 F 999 360 VERT(CL): 0.072 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.026 E - - Creep Factor: 2.0 Max TC CSI: 0.551 Max BC CSI: 0.639 Max Web CSI: 0.977 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL G 762 /- /- /341 /56 /114 E 762 /- /- /341 /56 /- Non-Gravity Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1191 -163 F - E 1191 -163

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W5 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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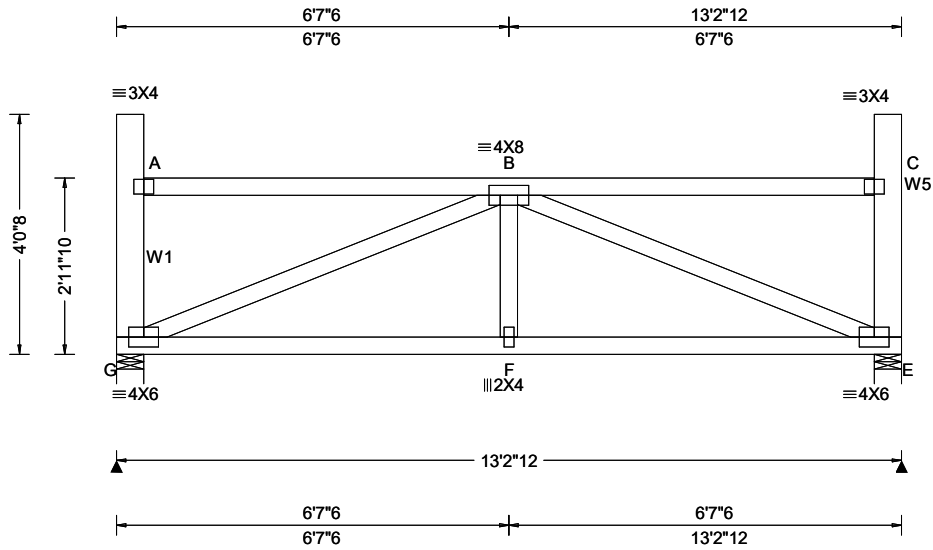
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34022 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08	Cust: R 9316 JRef: 1X1293160008 T7 DrwNo: 117.22.1505.49770 / NDW 04/27/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.041 F 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.070 F 999 240		G	762	/-	/-	/341	/56	/113	
BCDL: 10.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.015 E - -		E	762	/-	/-	/341	/56	/-	
Des Ld: 60.00		EXP: B Kzt: NA				HORZ(TL): 0.025 E - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height: 21.97 ft		Building Code:		Creep Factor: 2.0		G Brg Wid = 5.5 Min Req = 1.5 (Truss)							
Soffit: 2.00		TCDL: 5.0 psf		IBC 2018		Max TC CSI: 0.551		E Brg Wid = 5.5 Min Req = 1.5 (Truss)							
Load Duration: 1.15		BCDL: 3.0 psf		TPI Std: 2014		Max BC CSI: 0.636		Bearings G & E are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		Rep Fac: Yes		Max Web CSI: 0.969		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)				Maximum Bot Chord Forces Per Ply (lbs)							
		Loc. from endwall: Any		Plate Type(s):				Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18		WAVE		VIEW Ver: 21.02.00.1005.17		G - F		1173 -161		F - E		1173 -161	
		Wind Duration: 1.60													

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

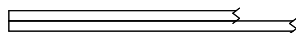


04/27/2022

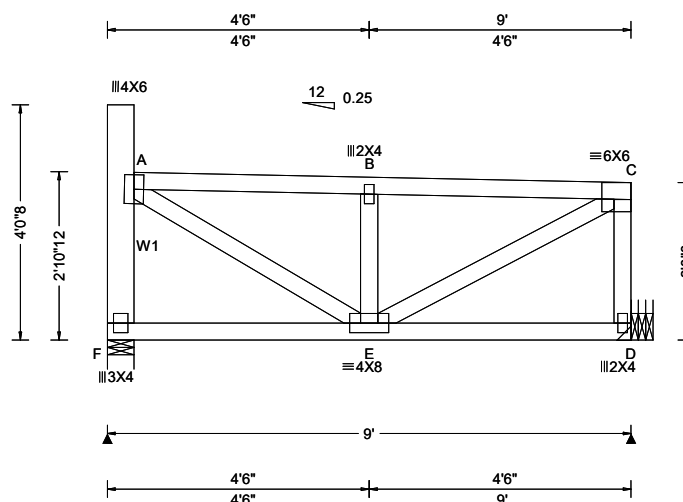
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SEQN: 34099 FROM:	MONO Qty: 2	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T10	Cust: R 9316 JRef: 1X1293160008 T9 DrwNo: 117.22.1506.39090 / NDW 04/27/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.015 B 999 360 VERT(CL): 0.026 B 999 240 HORZ(LL): 0.004 A - - HORZ(TL): 0.006 A - - Creep Factor: 2.0 Max TC CSI: 0.117 Max BC CSI: 0.676 Max Web CSI: 0.213 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 1266 /- /- /- /176 /- D 1489 /- /- /- /148 /- Wind reactions based on MWFRS F Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = - Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 95 -793 B - C 95 -794

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 4.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 50 plf at 0.00 to 50 plf at 2.33
BC: From 25 plf at 2.33 to 25 plf at 9.00
BC: 713 lb Conc. Load at 2.33
BC: 487 lb Conc. Load at 4.33, 6.33, 8.33

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.84
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
F - A	50 -453	E - C	869 -106
A - E	832 -95	C - D	54 -471



04/27/2022

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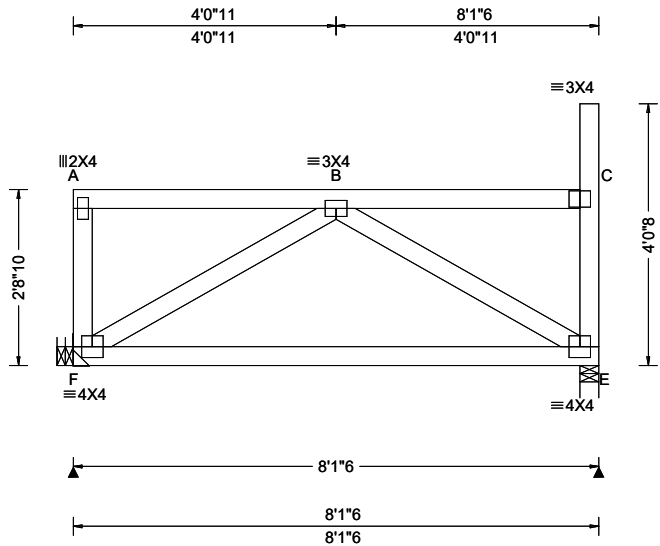
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34024 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T12	Cust: R 9316 JRef:1X1293160008 T210 DrwNo: 117.22.1506.44380 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity		
	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.005 B 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	F	487	/-	/-	/229	/43 /92
BCLL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	E	467	/-	/-	/214	/45 /-
BCDL: 10.00	EXP: B Kzt: NA		HORZ(TL): 0.004 E - -	Wind reactions based on MWFRS					
Des Ld: 60.00	Mean Height: 21.72 ft	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Creep Factor: 2.0	F Brg Wid = - Min Req = -					
NCBCLL: 0.00	TCDL: 5.0 psf		Max TC CSI: 0.216	E Brg Wid = 3.5 Min Req = 1.5 (Truss)					
Soffit: 2.00	BCDL: 3.0 psf		Max BC CSI: 0.818	Bearing E is a rigid surface.					
Load Duration: 1.15	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.203	Members not listed have forces less than 375#					
Spacing: 24.0 "	C&C Dist a: 3.00 ft								
	Loc. from endwall: Any								
	GCpi: 0.18								
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.32 13.12 3.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

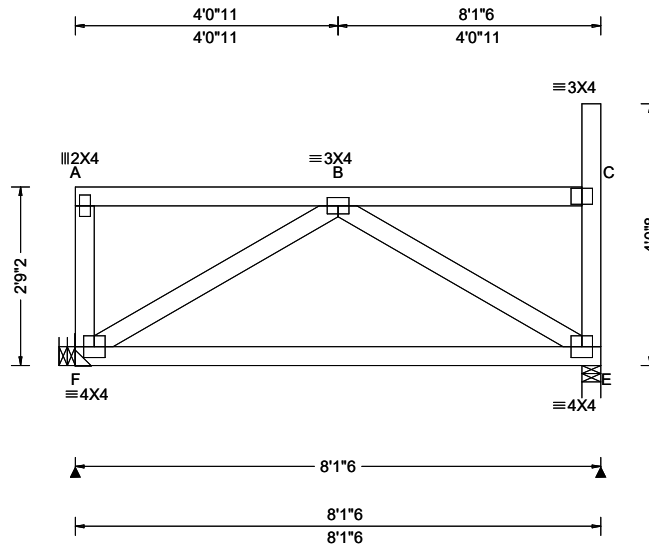


04/27/2022

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SEQN: 34025	FLAT	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T126
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 117.22.1506.54163
			Truss Label: T13	/ NDW 04/27/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity Non-Gravity						
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.005 B 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.008 B 999 240		F	487	/-	/-	/229	/44	/91
BCDL: 10.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.002 E - -		E	467	/-	/-	/214	/45	/-
Des Ld: 60.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE		HORZ(TL): 0.004 E - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 21.76 ft				Creep Factor: 2.0		F Brg Wid = - Min Req = -						
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.216		E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.817		Bearing E is a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2				Max Web CSI: 0.203		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft												
		Loc. from endwall: Any												
		GCpi: 0.18												
		Wind Duration: 1.60												
						VIEW Ver: 21.02.00.1005.17								

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Truss must be installed as shown with top chord up.



04/27/2022

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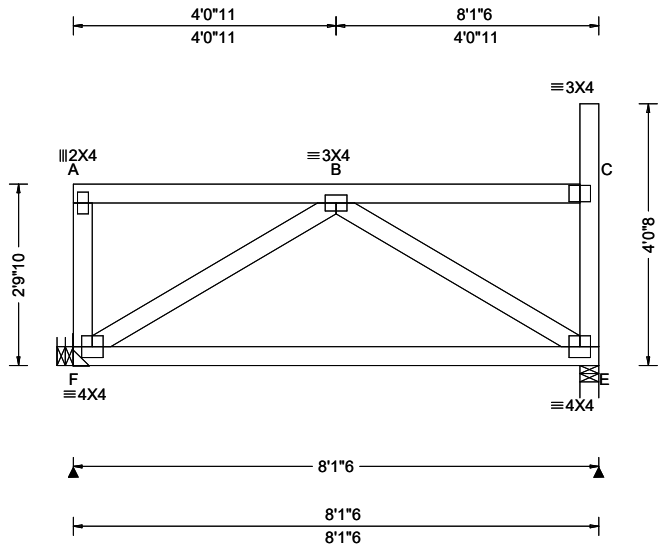
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34026 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T14	Cust: R 9316 JRef:1Xf293160008 T130 DrwNo: 117.22.1506.59320 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)												
				Gravity			Non-Gravity									
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL						
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.005 B 999 360	F	487	/-	/-	/229	/44	/91						
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	E	467	/-	/-	/214	/45	/-						
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS												
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.004 E - -	F	Brg Wid = -		Min Req = -									
NCBCLL: 0.00	Mean Height: 21.80 ft	Building Code:	Creep Factor: 2.0	E	Brg Wid = 3.5		Min Req = 1.5 (Truss)									
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.217	Bearing E is a rigid surface.												
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.815	Members not listed have forces less than 375#												
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.203													
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)														
	Loc. from endwall: Any	Plate Type(s):														
	GCpi: 0.18															
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17													

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

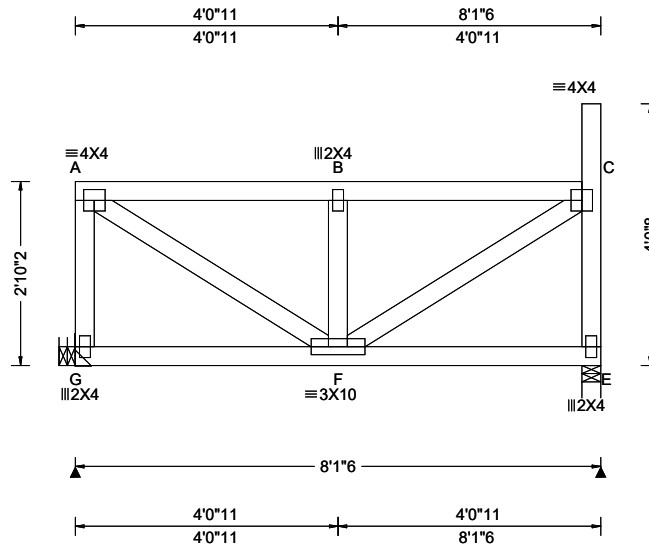


04/27/2022

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SEQN: 34094 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T15	Cust: R 9316 JRef: 1X1293160008 T124 DrwNo: 117.22.1510.13493 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.84 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.012 B 999 360 VERT(CL): 0.020 B 999 240 HORZ(LL): -0.002 C - - HORZ(TL): 0.004 C - - Creep Factor: 2.0 Max TC CSI: 0.240 Max BC CSI: 0.306 Max Web CSI: 0.178 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 713 /- /- /- /165 /- E 569 /- /- /- /108 /- Wind reactions based on MWFRS G Brg Wid = - Min Req = - E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing E is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 132 -625 B - C 132 -629

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

——(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 25 plf at 0.00 to 25 plf at 8.11
BC: 133 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	7.82	0.00	20.00	1.20	8.97 2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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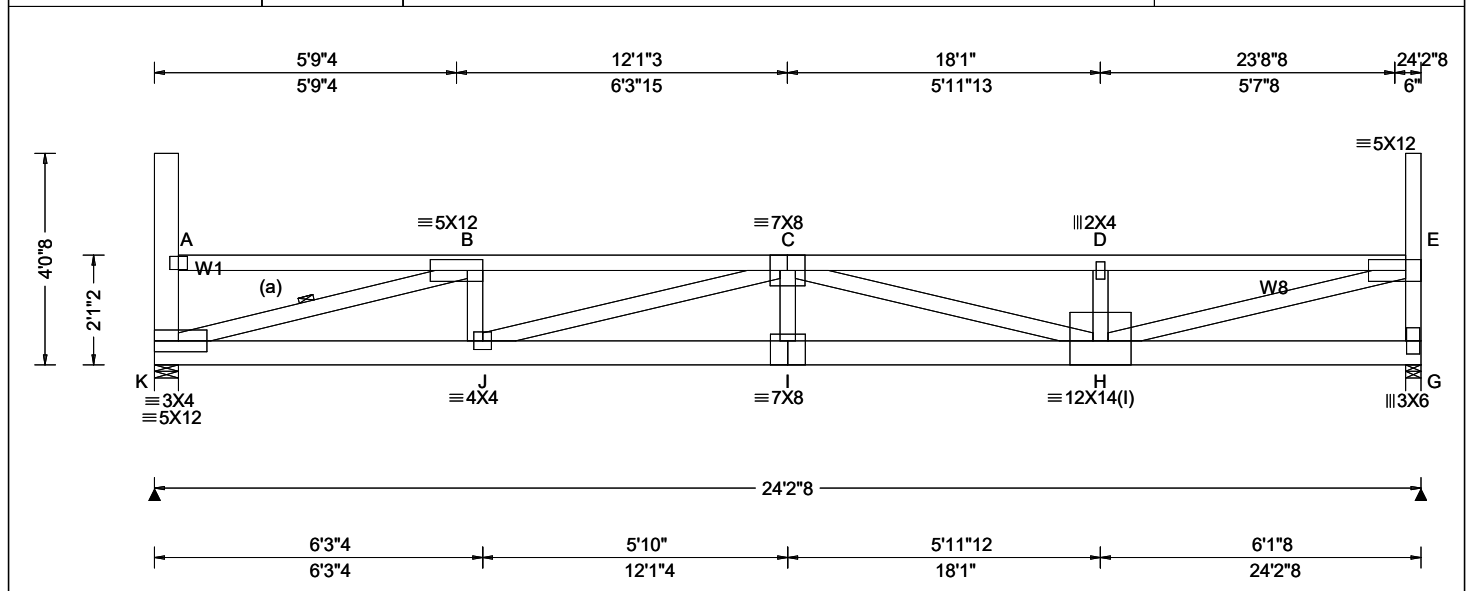
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34126 FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T17	Cust: R 9316 JRef: 1X1293160008 T127 DrwNo: 117.22.1510.33810 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 15.00 BCCL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.09 ft TCCL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.397 I 731 360 VERT(CL): 0.665 I 436 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.099 A - - Creep Factor: 2.0 Max TC CSI: 0.943 Max BC CSI: 0.676 Max Web CSI: 0.886 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1467 /- /- /610 /77 /126 G 1479 /- /- /616 /79 /- Non-Gravity Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.3 (Truss) G Brg Wid = 3.5 Min Req = 2.3 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 238 -4123 D - E 233 -4101 C - D 233 -4096

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.27". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
K - J	4013 -364	I - H	5375 -305
J - I	5375 -305		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
K - B	240 -4084	D - H	75 -382
B - J	658 0	H - E	4130 -251
J - C	147 -1305	E - G	91 -1319
C - H	139 -1332		



04/27/2022

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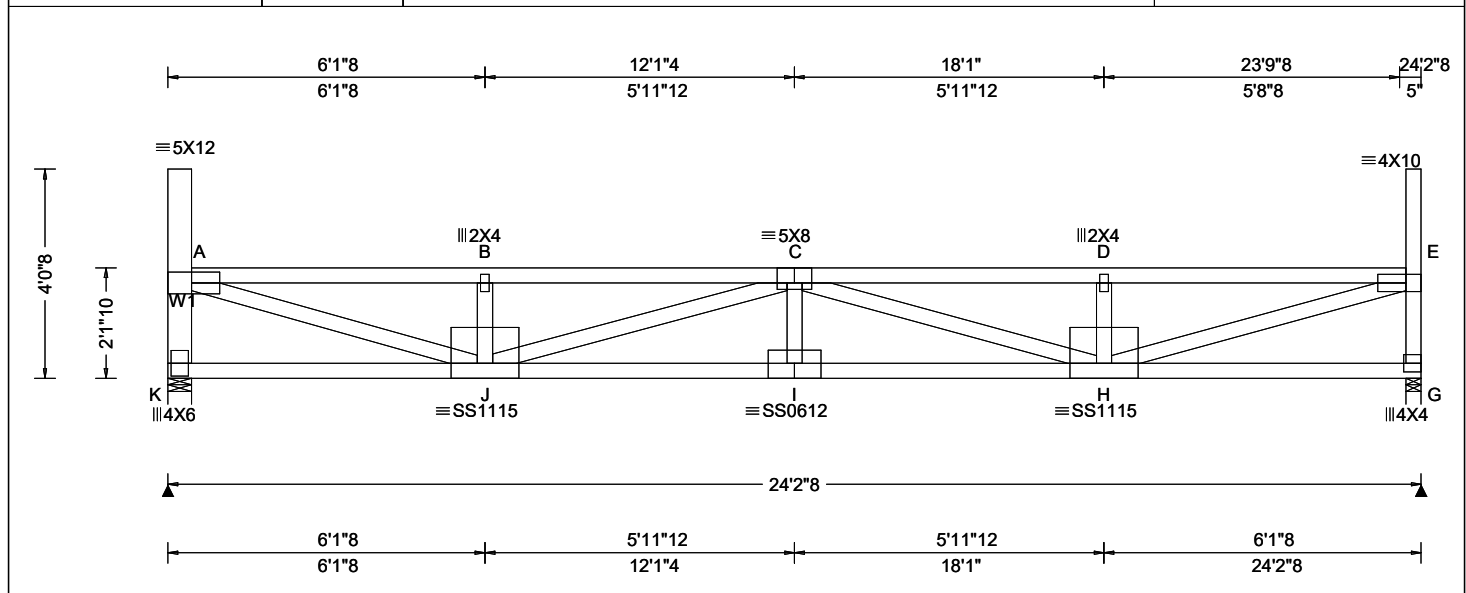
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34028 FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T18	Cust: R 9316 JRef: 1X1293160008 T125 DrwNo: 117.22.1510.39090 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.390 I 745 360 VERT(CL): 0.668 I 434 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.101 A - - Creep Factor: 2.0 Max TC CSI: 0.873 Max BC CSI: 0.653 Max Web CSI: 0.937 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1421 -/- /- /610 /78 /127 G 1432 -/- /- /616 /80 /- Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 233 -3773 C - D 224 -3779 B - C 232 -3768 D - E 225 -3784

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.28". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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North Building, 4th Floor
Glenview, IL 60025

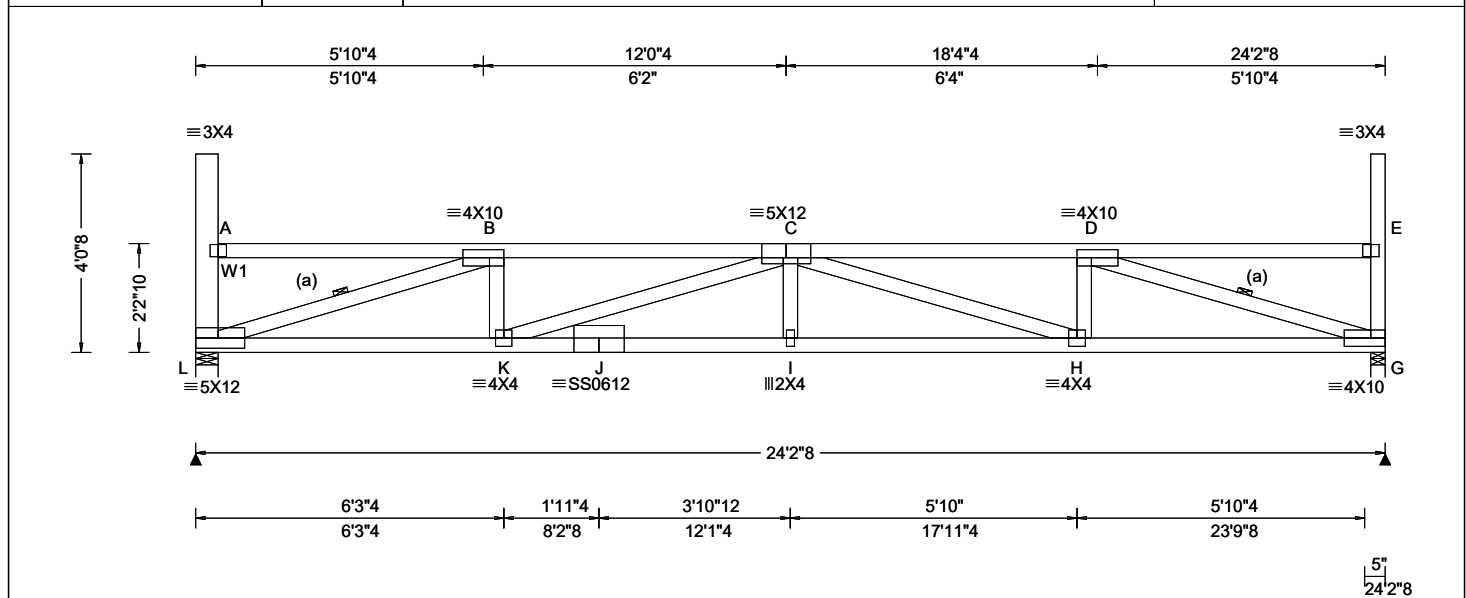
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SEQN: 34030 FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T20	Cust: R 9316 JRef: 1X1293160008 T116 DrwNo: 117.22.1510.46440 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.342 I 850 360 VERT(CL): 0.586 I 496 240 HORZ(LL): 0.074 G - - HORZ(TL): 0.126 G - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.610 Max Web CSI: 0.774 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 /- /- /610 /78 /124 G 1432 /- /- /616 /80 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 221 -3638 C - D 212 -3648

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

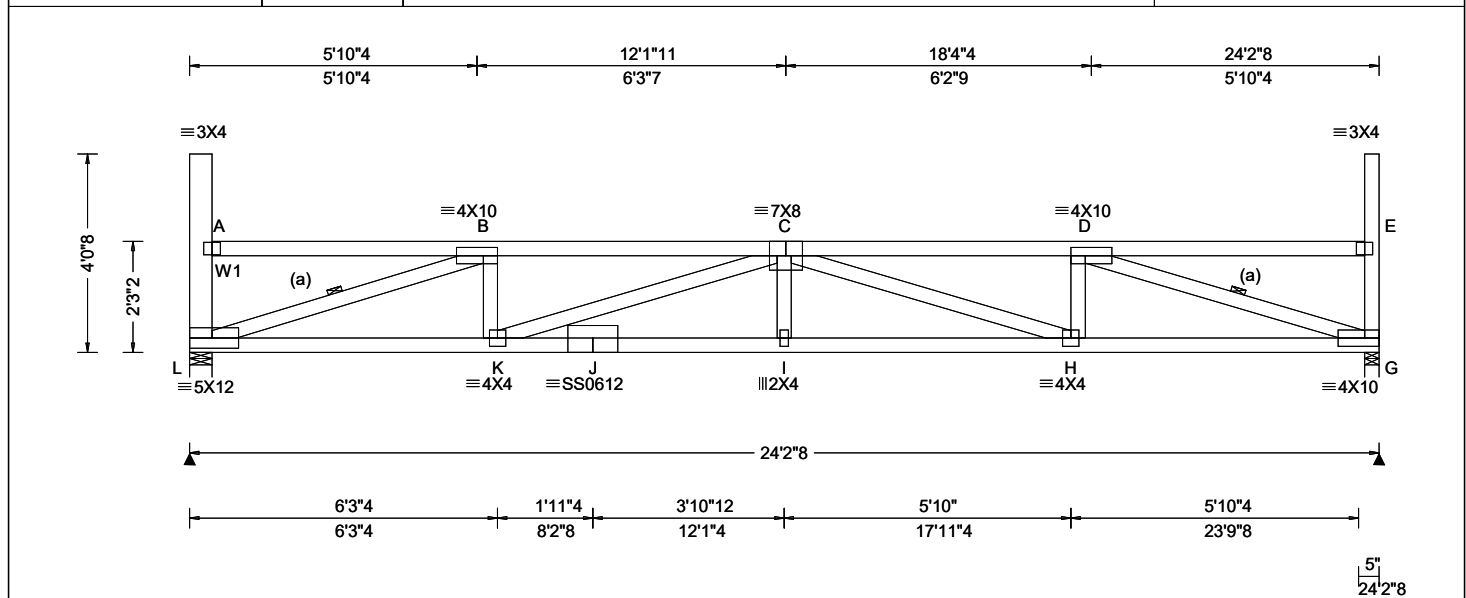
Truss must be installed as shown with top chord up.



04/27/2022

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SEQN: 34031 FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T21	Cust: R9316 JRef: 1X1293160008 T117 DrwNo: 117.22.1510.51460 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.328 I 886 360 VERT(CL): 0.562 I 517 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.123 G - - Creep Factor: 2.0 Max TC CSI: 0.590 Max BC CSI: 0.600 Max Web CSI: 0.761 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1419 /- /- /609 /78 /123 G 1431 /- /- /615 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -3560 C - D 187 -3569

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.23". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



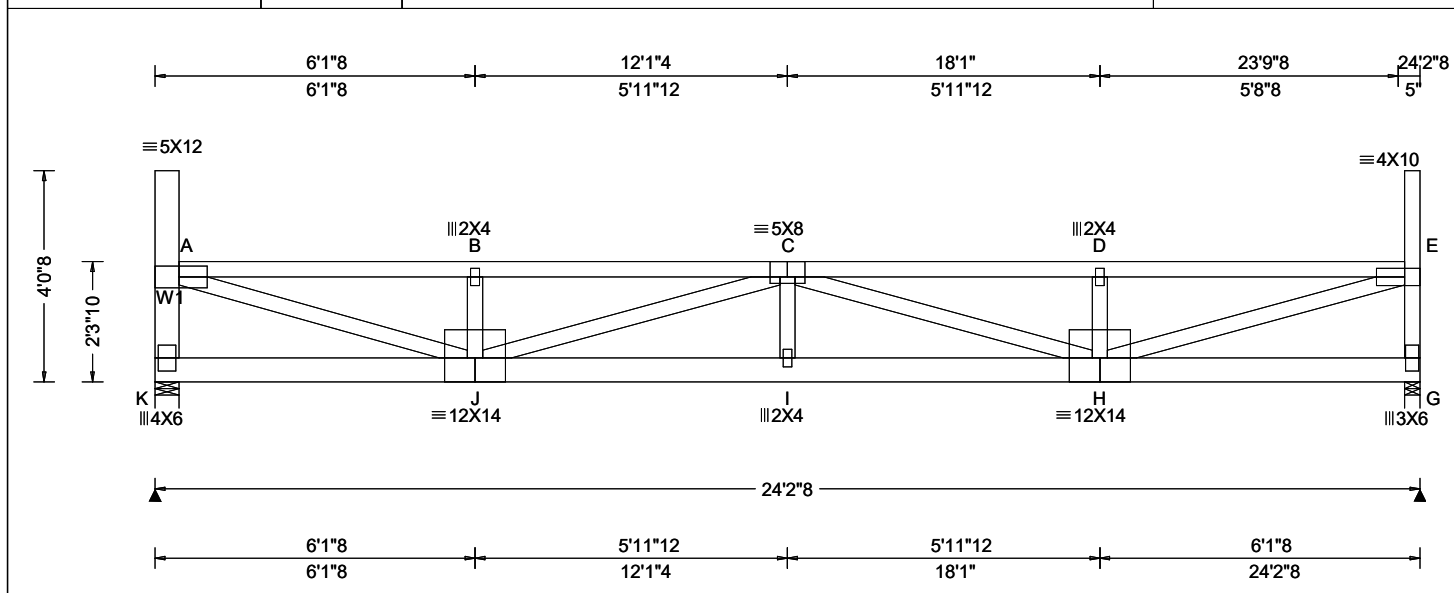
04/27/2022

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North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34032 FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T22	Cust: R 9316 JRef: 1X1293160008 T118 DrwNo: 117.22.1510.55853 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.324 I 896 360 VERT(CL): 0.555 I 523 240 HORZ(LL): 0.051 A - - HORZ(TL): 0.088 A - - Creep Factor: 2.0 Max TC CSI: 0.835 Max BC CSI: 0.587 Max Web CSI: 0.885 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1421 - / - / 609 / 78 / 119 G 1432 - / - / 615 / 80 / - Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.2 (Truss) G Brg Wid = 3.5 Min Req = 2.2 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 205 - 3549 C - D 192 - 3550 B - C 204 - 3544 D - E 193 - 3555

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.74 26.95 5.28
23.92 0.00 23.46 1.74 26.95 5.28
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

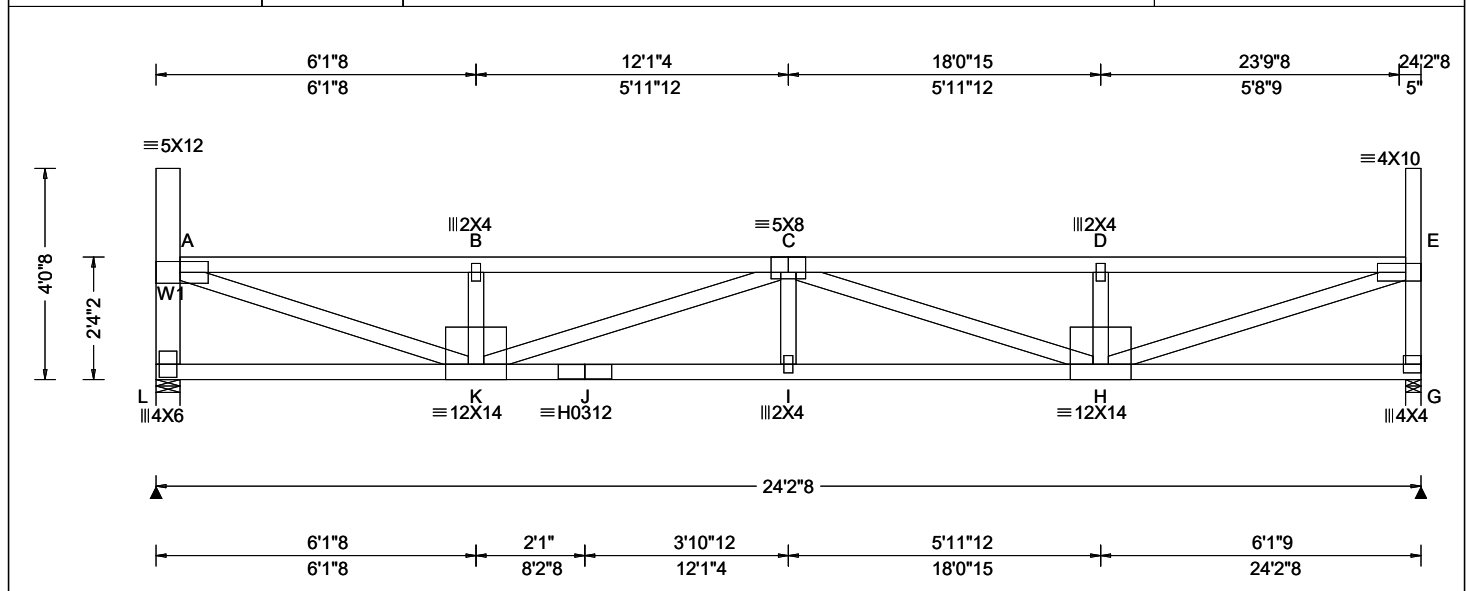


04/27/2022

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34033 FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T23	Cust: R 9316 JRef: 1X1293160008 T119 DrwNo: 117.22.1511.00170 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.318 I 912 360 VERT(CL): 0.545 I 532 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.092 A - - Creep Factor: 2.0 Max TC CSI: 0.807 Max BC CSI: 0.585 Max Web CSI: 0.853 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 /- /- /609 /78 /120 G 1432 /- /- /615 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 198 - 3403 C - D 184 - 3407 B - C 198 - 3398 D - E 185 - 3412

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

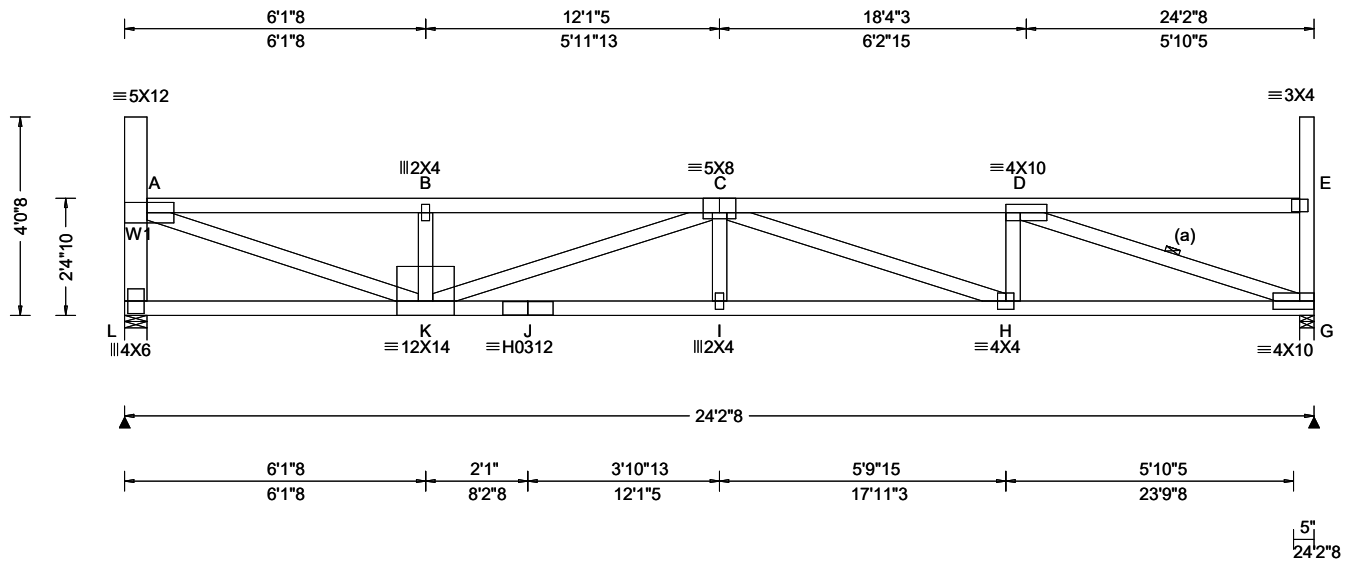


04/27/2022

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North Building, 4th Floor
Glenview, IL 60025

SEQN: 34034 FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T24	Cust: R 9316 JRef: 1X1293160008 T120 DrwNo: 117.22.1511.04810 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.299 I 972 360 VERT(CL): 0.512 I 567 240 HORZ(LL): 0.054 G - - HORZ(TL): 0.092 G - - Creep Factor: 2.0 Max TC CSI: 0.764 Max BC CSI: 0.579 Max Web CSI: 0.822 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 /- /- /609 /78 /119 G 1432 /- /- /615 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 195 - 3337 C - D 177 - 3365 B - C 194 - 3332

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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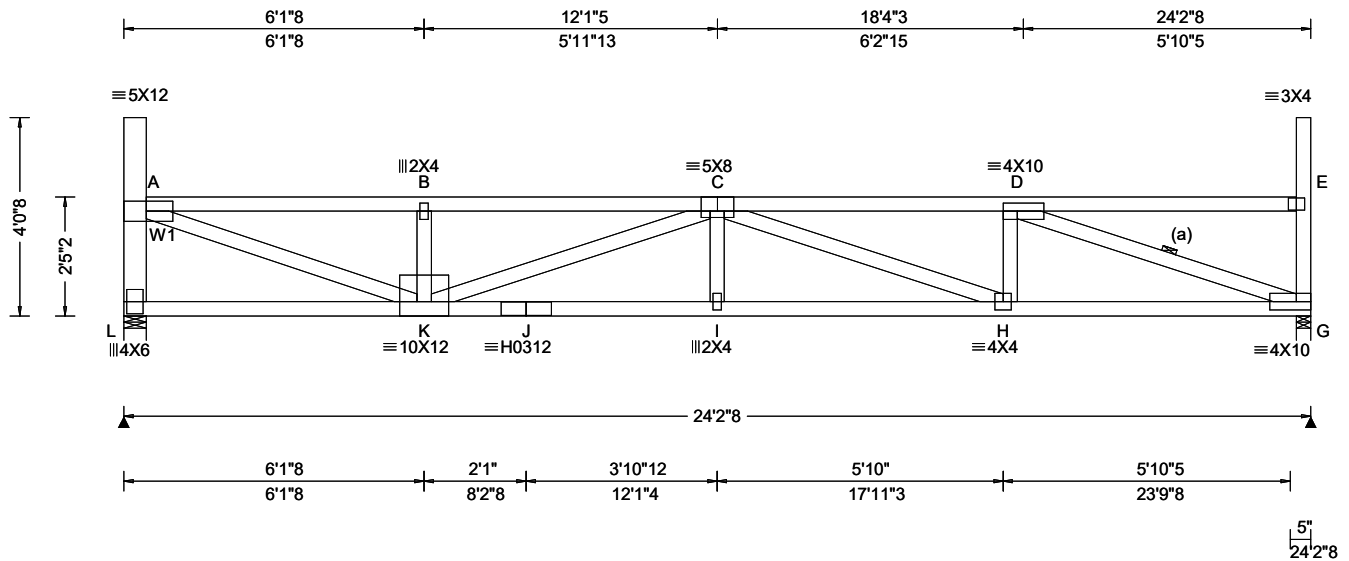
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34035	FLAT	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T121
FROM:		Qty: 3	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 117.22.1511.13503
			Truss Label: T25	/ NDW 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.288 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.493 I 589 240	L 1420 /- /- /609 /78 /118
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.053 G - -	G 1432 /- /- /615 /81 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.090 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.43 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.729	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.570	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.807	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	
				A - B 191 -3273 C - D 174 -3301

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.29" DL: 0.21". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



04/27/2022

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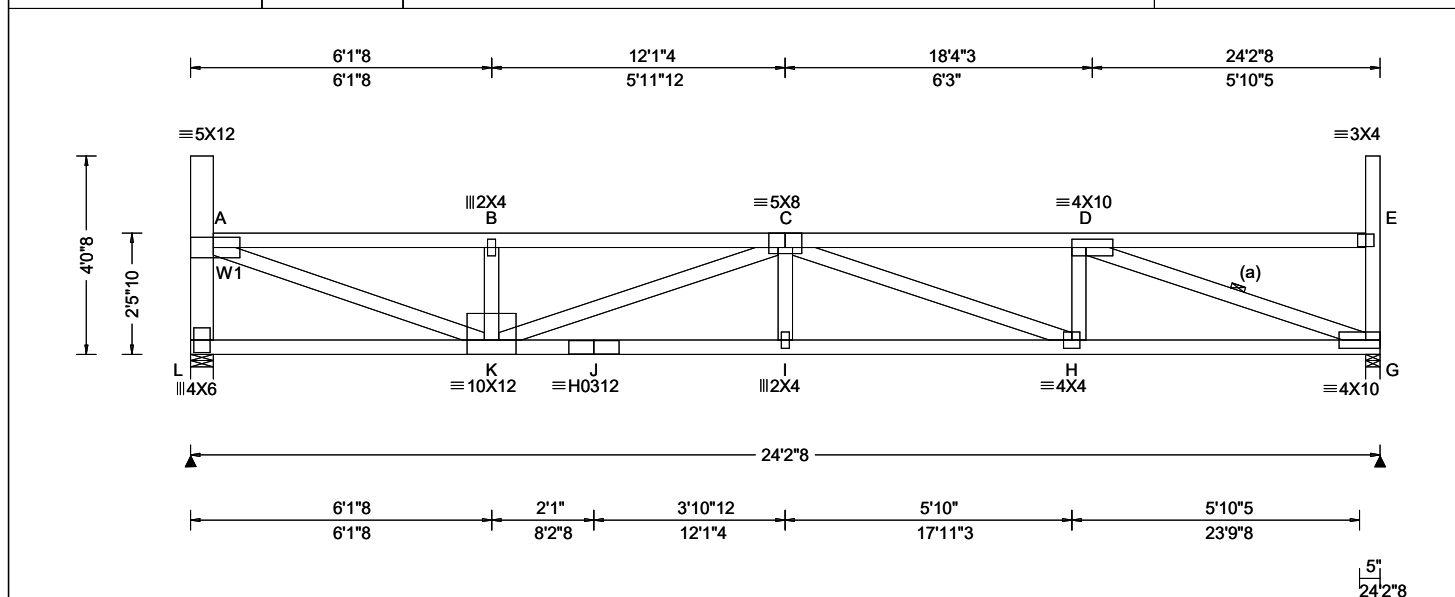
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34036 FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T26	Cust: R9316 JRef: 1X1293160008 T106 DrwNo: 117.22.1512.03240 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	GravityNon-Gravity Loc R+ / R- / Rh / Rw / U / RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.278 I 999 360	L 1421 - / - / 609 / 78 / 116
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.476 I 610 240	G 1432 - / - / 615 / 81 -
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.052 G - -	Wind reactions based on MWFRS
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.089 G - -	L Brg Wid = 5.5 Min Req = 1.8 (Truss)
NCBCLL: 0.00	Mean Height: 21.47 ft	Building Code:	Creep Factor: 2.0	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.696	Bearings L & G are a rigid surface.
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.562	Members not listed have forces less than 375#
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.794	Maximum Top Chord Forces Per Ply (lbs)
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Chords Tens.Comp. Chords Tens. Comp.
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		A - B 189 - 3213 C - D 171 - 3240
	GCpi: 0.18	WAVE, HS	VIEW Ver: 21.02.00.1005.17	
	Wind Duration: 1.60			

Lumber

Top chord: 2x4 SPF #1/#2;
 Bot chord: 2x4 SPF 2100f-1.8E;
 Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.57	21.42 5.16
	23.92	0.00	23.46	1.57	21.42 5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
 Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



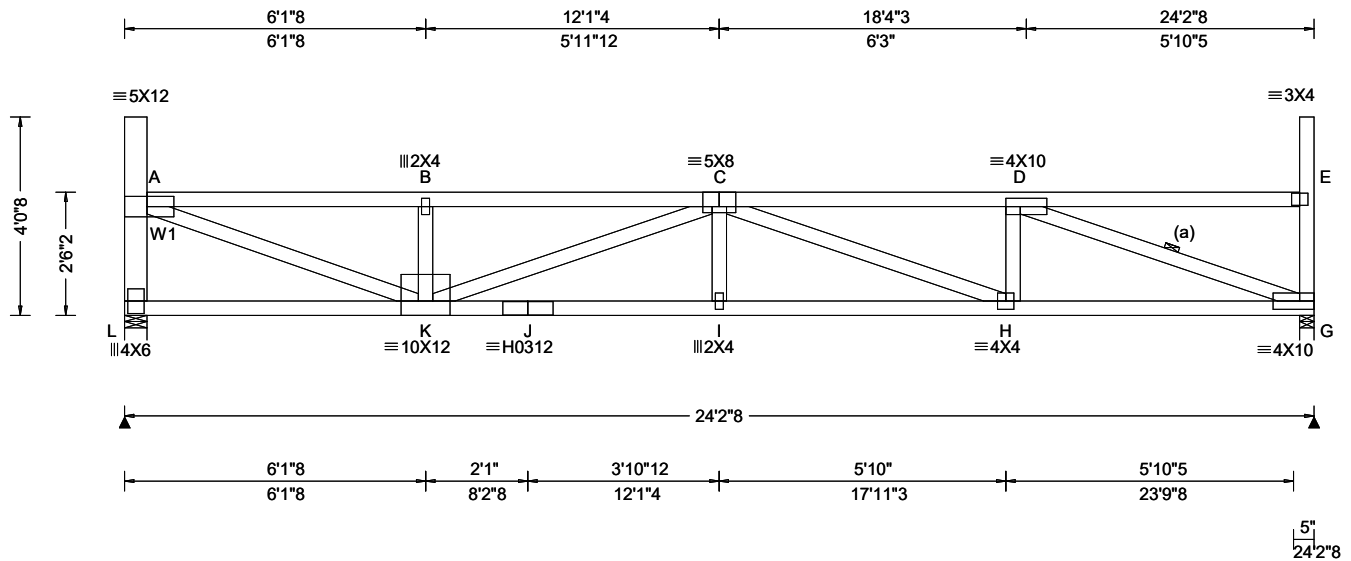
04/27/2022

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ALPINE
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 155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

SEQN: 34037 FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T27	Cust: R9316 JRef: 1X1293160008 T105 DrwNo: 117.22.1512.09397 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.268 I 999 360 VERT(CL): 0.459 I 632 240 HORZ(LL): 0.051 G - - HORZ(TL): 0.087 G - - Creep Factor: 2.0 Max TC CSI: 0.665 Max BC CSI: 0.557 Max Web CSI: 0.781 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 /- /- /608 /79 /115 G 1432 /- /- /615 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 186 -3154 C - D 168 -3180 B - C 185 -3149

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

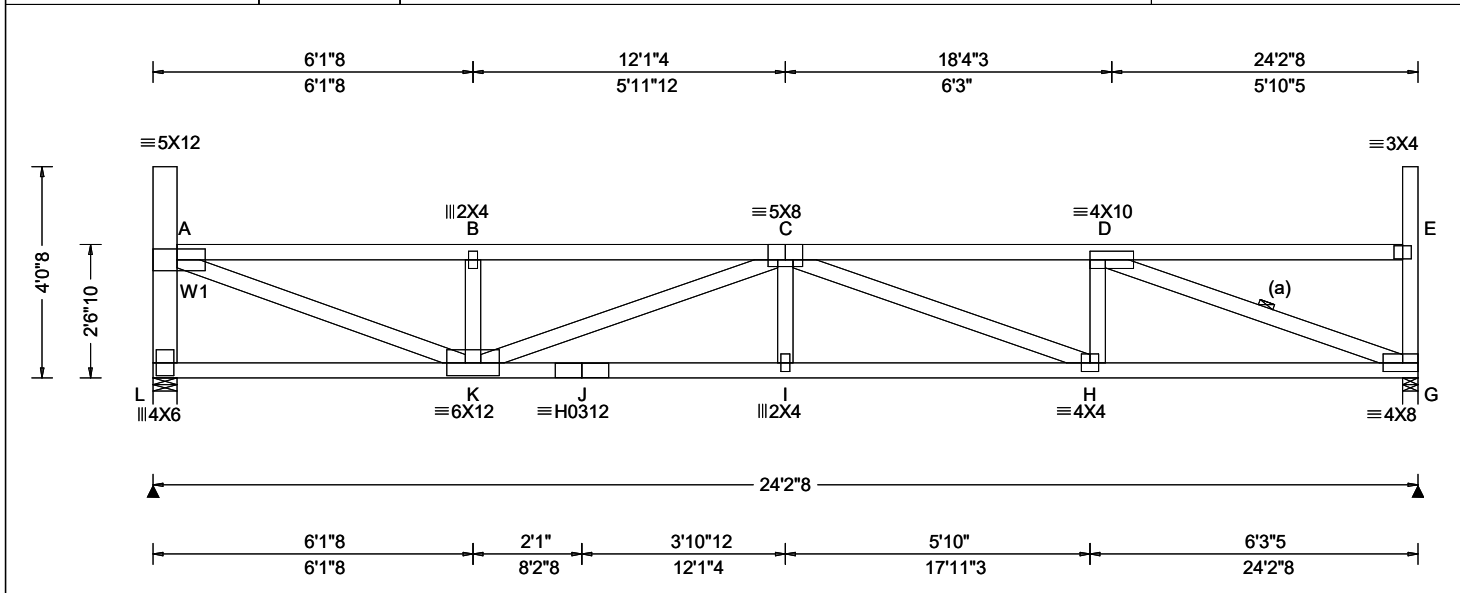


04/27/2022

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ALPINE
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34038	FLAT	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T107
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 117.22.1512.13720
			Truss Label: T28	/ NDW 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.259 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.443 I 655 240	L 1421 /- /- /608 /79 /113
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.050 G - -	G 1432 /- /- /615 /81 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.086 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.55 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.637	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.551	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.768	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	A - B 183 -3097 C - D 165 -3123

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



04/27/2022

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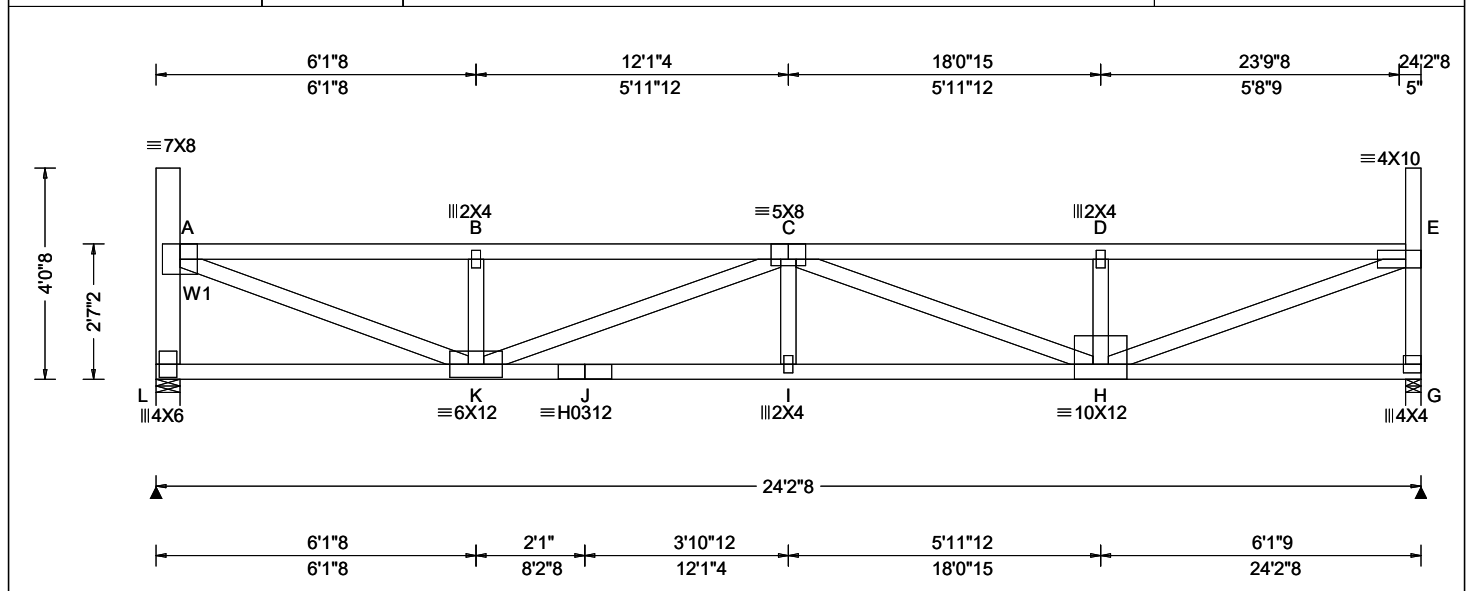
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34039 FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T29	Cust: R 9316 JRef: 1X1293160008 T111 DrwNo: 117.22.1512.18627 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.439 I 661 240 HORZ(LL): 0.049 A - - HORZ(TL): 0.083 A - - Creep Factor: 2.0 Max TC CSI: 0.645 Max BC CSI: 0.540 Max Web CSI: 0.771 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 /- /- /608 /79 /112 G 1432 /- /- /614 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 180 -3042 C - D 165 -3045 B - C 180 -3037 D - E 166 -3050

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

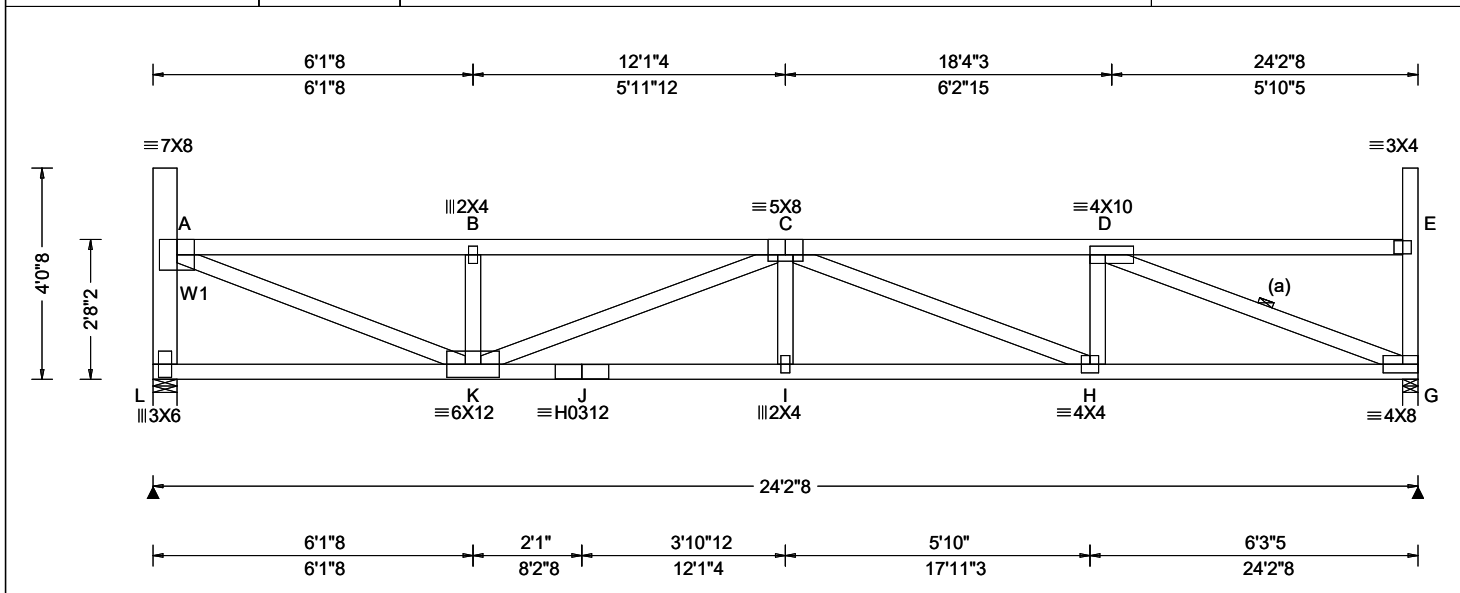


04/27/2022

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34041	FLAT	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T129
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 117.22.1512.29580
			Truss Label: T31	/ NDW 04/27/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)															
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in	loc	L/defl	L/#	Gravity			Non-Gravity									
TCDL:	15.00	Speed:	109 mph	Pf: 15.4		Ce: 1.0	VERT(LL):	0.234	I	999	360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL					
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00		VERT(CL):	0.401	I	724	240	L	1421	/-	/-	/608	/79	/109					
BCDL:	10.00	Risk Category:	II	Snow Duration: 1.15			HORZ(LL):	0.047	G	-	-	G	1432	/-	/-	/614	/81	/-					
Des Ld:	60.00	EXP: B	Kzt: NA			Building Code:	Creep Factor:	2.0	Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.														
NCBCLL:	0.00	Mean Height:	21.68 ft			IBC 2018	Max TC CSI:	0.595															
Soffit:	2.00	TCDL:	5.0 psf			TPI Std: 2014	Max BC CSI:	0.536															
Load Duration:	1.15	BCDL:	3.0 psf			Rep Fac: Yes	Max Web CSI:	0.733															
Spacing:	24.0 "	MWFRS Parallel Dist:	h/2 to h			FT/RT:20(0)/10(0)																	
		C&C Dist a:	3.00 ft			Plate Type(s):																	
		Loc. from endwall:	not in 14.50 ft			WAVE, HS																	
		GCpi:	0.18																				
		Wind Duration:	1.60																				
																			VIEW Ver: 21.02.00.1005.17				
												A - B		175		-2938		C - D		156		-2962	
												B - D		175		-2938		D - E		156		-2962	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.17". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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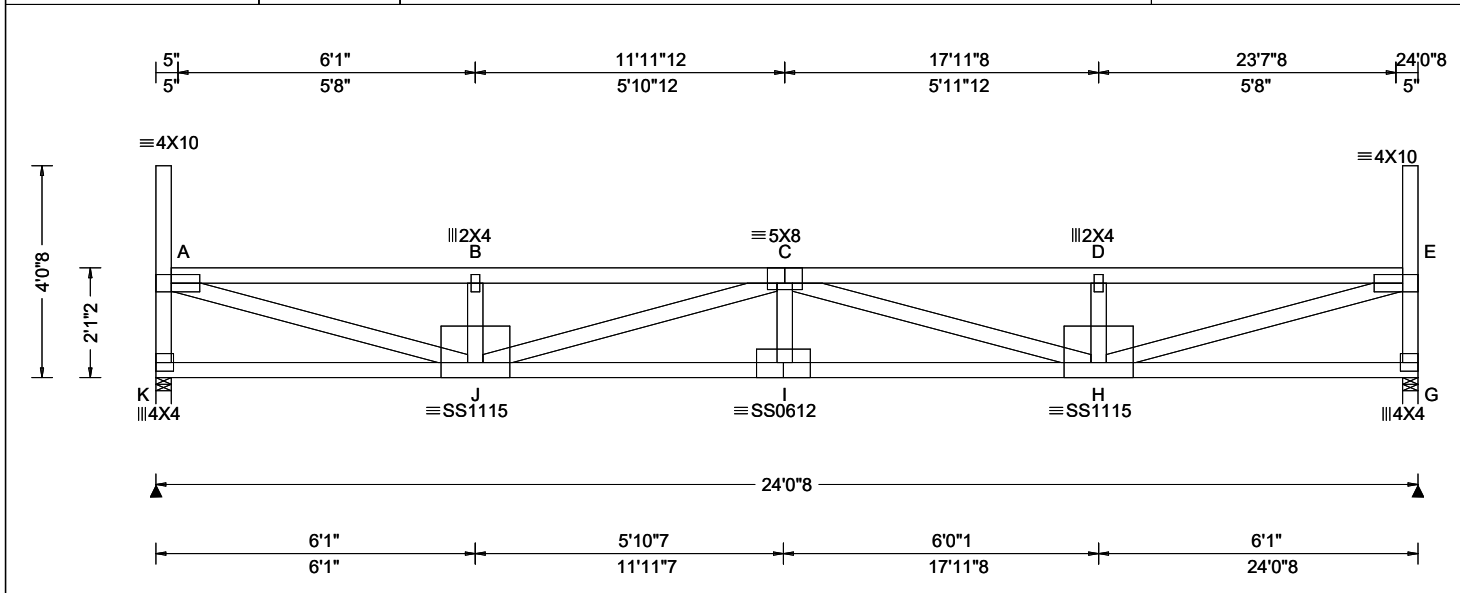
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34042	FLAT	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T166
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 117.22.1512.50097
			Truss Label: T33	/ NDW 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.398 I 725 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.682 I 423 240	K 1421 /- /- /612 /80 /138
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.059 A - -	K 1421 /- /- /612 /80 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.100 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.09 ft	Building Code:	Creep Factor: 2.0	K Brg Wid = 3.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.868	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.652	Bearings K & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.944	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	
				A - B 239 - 3812 C - D 238 - 3811
				B - C 239 399Z D - E 239 3916

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.28". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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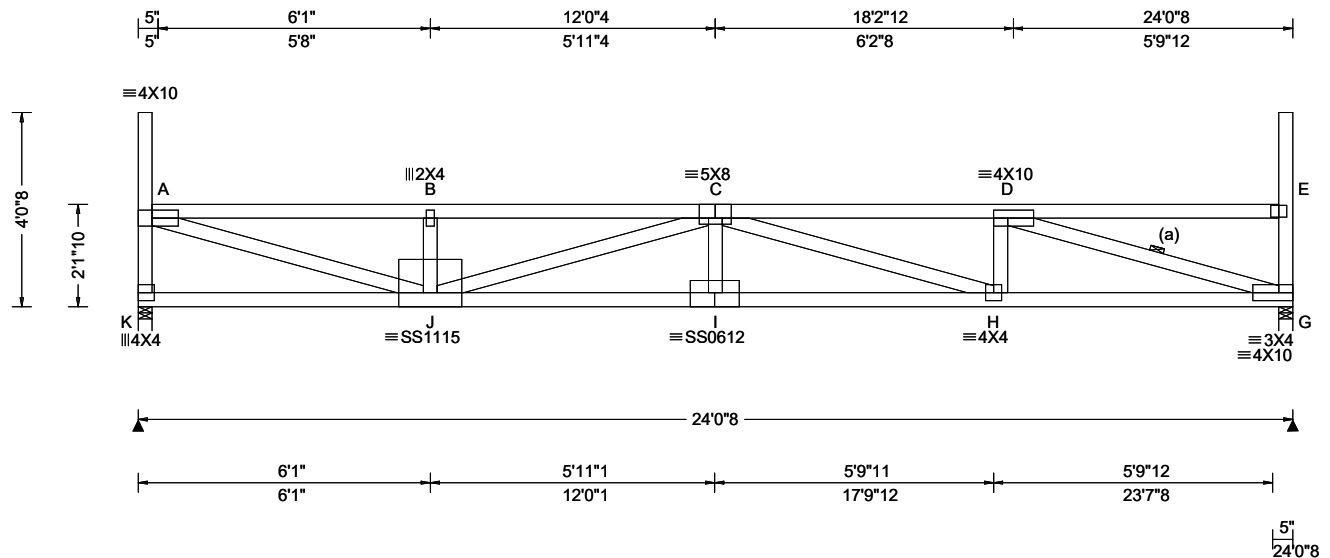
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34043 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T34	Cust: R 9316 JRef: 1X1293160008 T154 DrwNo: 117.22.1512.56100 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.371 I 776 360 VERT(CL): 0.637 I 453 240 HORZ(LL): 0.059 G - - HORZ(TL): 0.102 G - - Creep Factor: 2.0 Max TC CSI: 0.854 Max BC CSI: 0.639 Max Web CSI: 0.925 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1422 /- /- /612 /80 /137 G 1422 /- /- /612 /80 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 234 - 3732 C - D 231 - 3757 B - C 233 - 3727

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.27". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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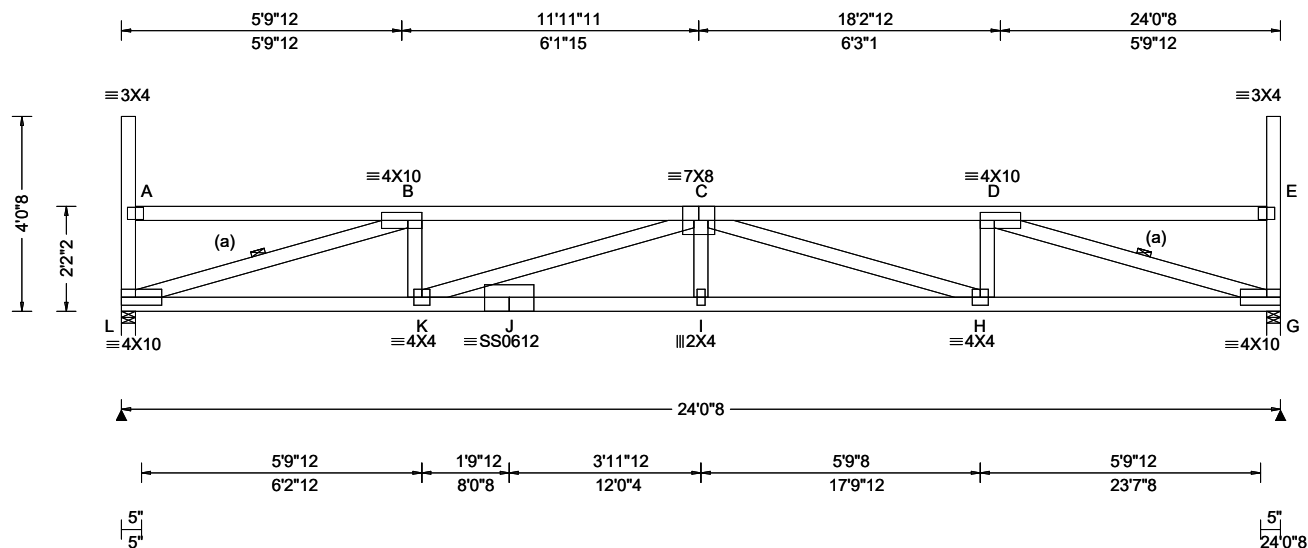
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34044	FLAT	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T156
FROM:		Qty: 2	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 117.22.1513.00910
			Truss Label: T35	/ NDW 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.346 I 832 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.594 I 486 260	L 1420 /- /- /612 /80 /135
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.074 G - -	G 1420 /- /- /612 /80 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.126 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.18 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.608	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.612	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.770	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE 18SS	VIEW Ver: 21.02.00.1005.17	B - C 225 -3672 C - D 225 -3671

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.25". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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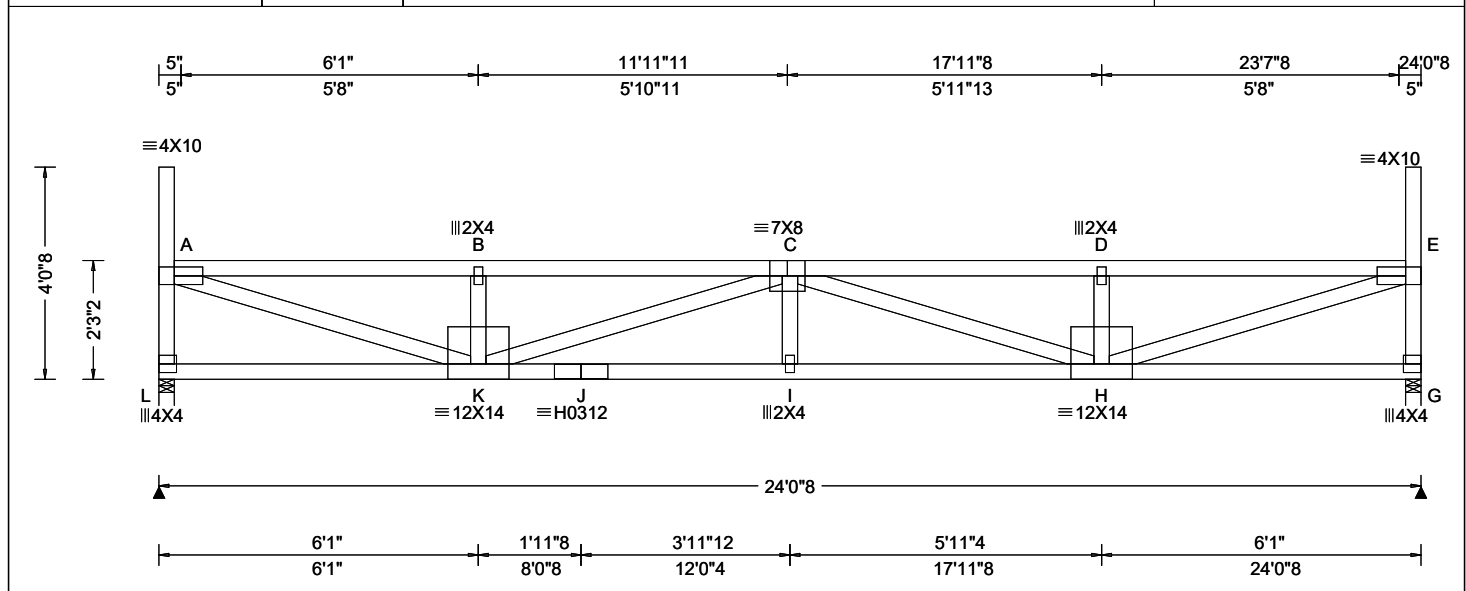


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Glenview, IL 60025

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North Building, 4th Floor
Glenview, IL 60025

SEQN: 34046 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T37	Cust: R 9316 JRef: 1X1293160008 T160 DrwNo: 117.22.1513.09773 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.336 I 858 360 VERT(CL): 0.576 I 500 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.093 A - - Creep Factor: 2.0 Max TC CSI: 0.812 Max BC CSI: 0.594 Max Web CSI: 0.872 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1420 /- /- /612 /80 /133 G 1420 /- /- /612 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 199 - 3499 C - D 198 - 3493 B - C 198 - 3494 D - E 198 - 3498

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



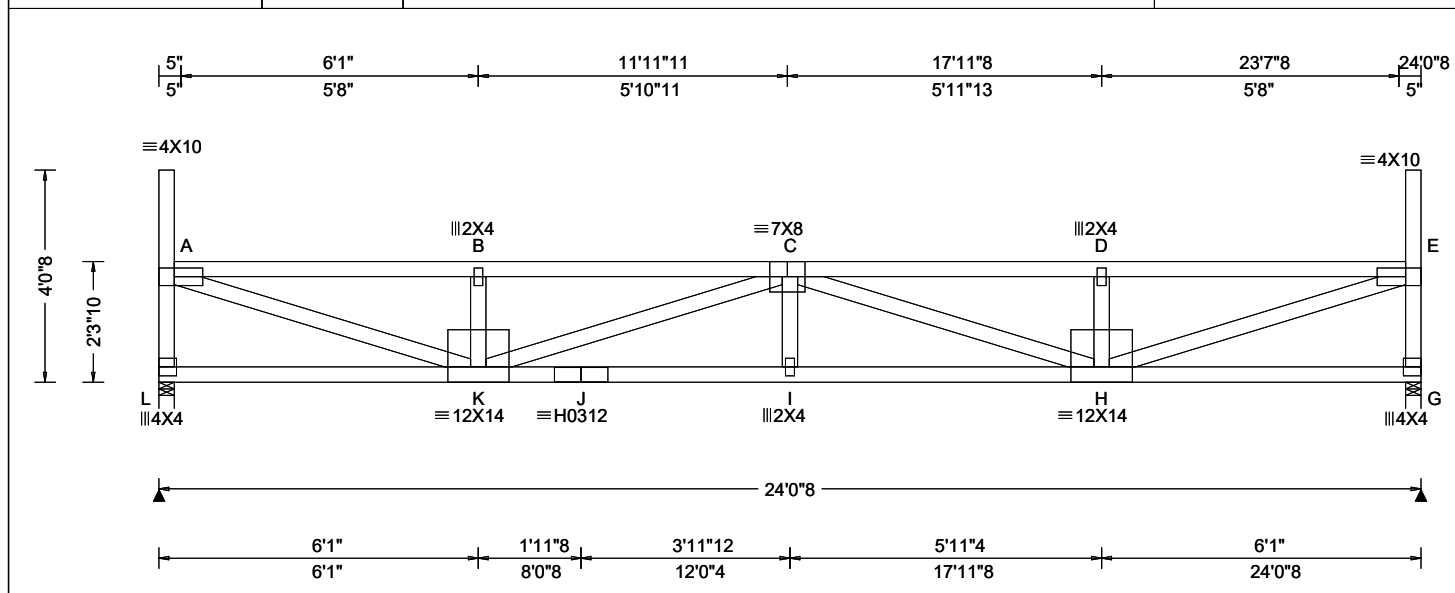
04/27/2022

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34047 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T38	Cust: R 9316 JRef: 1X1293160008 T162 DrwNo: 117.22.1513.15000 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.323 I 893 360 VERT(CL): 0.554 I 521 240 HORZ(LL): 0.053 A - - HORZ(TL): 0.091 A - - Creep Factor: 2.0 Max TC CSI: 0.799 Max BC CSI: 0.585 Max Web CSI: 0.856 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1420 /- /- /612 /80 /132 G 1420 /- /- /612 /80 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 195 -3429 C - D 194 -3423 B - C 194 -3423 D - E 195 -3428

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

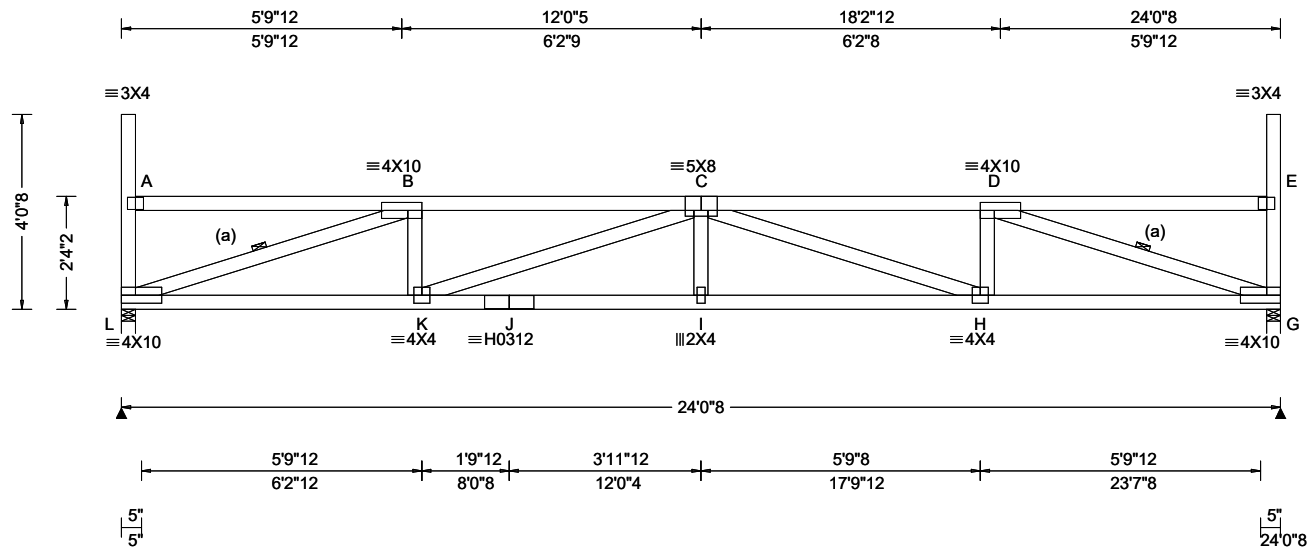


04/27/2022

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North Building, 4th Floor
Glenview, IL 60025

SEQN: 34048 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T39	Cust: R9316 JRef: 1X1293160008 T158 DrwNo: 117.22.1513.20640 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.296 I 975 360 VERT(CL): 0.507 I 569 240 HORZ(LL): 0.068 G - - HORZ(TL): 0.116 G - - Creep Factor: 2.0 Max TC CSI: 0.542 Max BC CSI: 0.578 Max Web CSI: 0.723 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /612 /81 /131 G 1422 /- /- /612 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 188 -3386 C - D 189 -3384

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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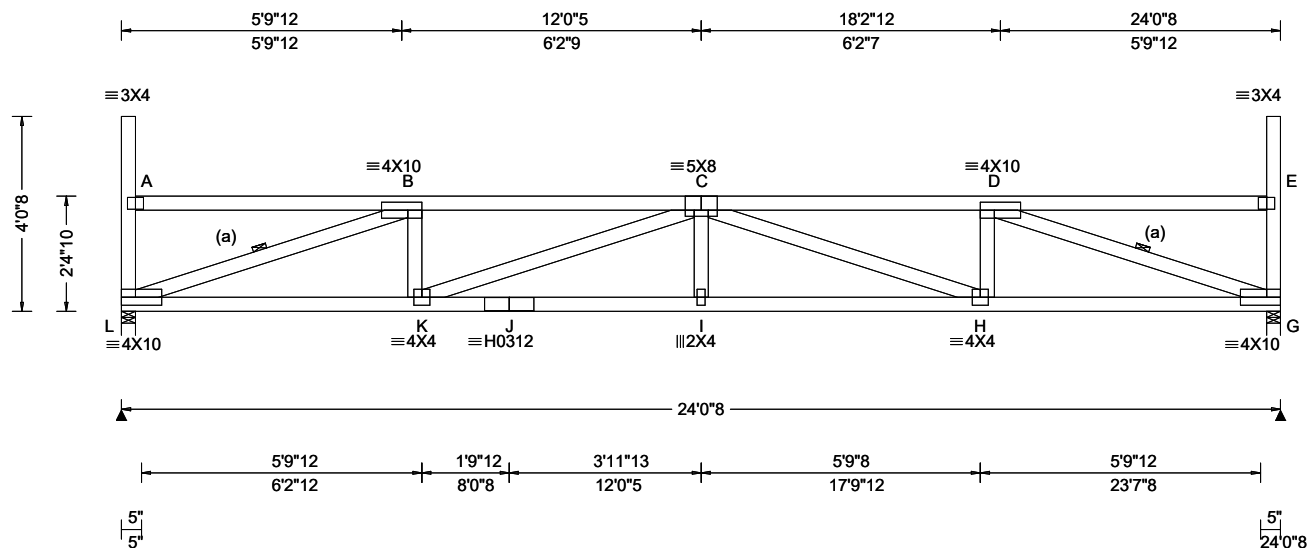
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34049	FLAT	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T155
FROM:		Qty: 2	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 117.22.1513.28917
			Truss Label: T40	/ NDW 04/27/2022



Leading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.285 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.488 I 590 240	L 1422 /- /- /612 /81 /129
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.066 G - -	G 1422 /- /- /612 /81 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.114 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.39 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.529	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.571	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.713	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE HS	VIEW Ver: 21.02.00.1005.17	B - C 185 -3320 C - D 185 -3319

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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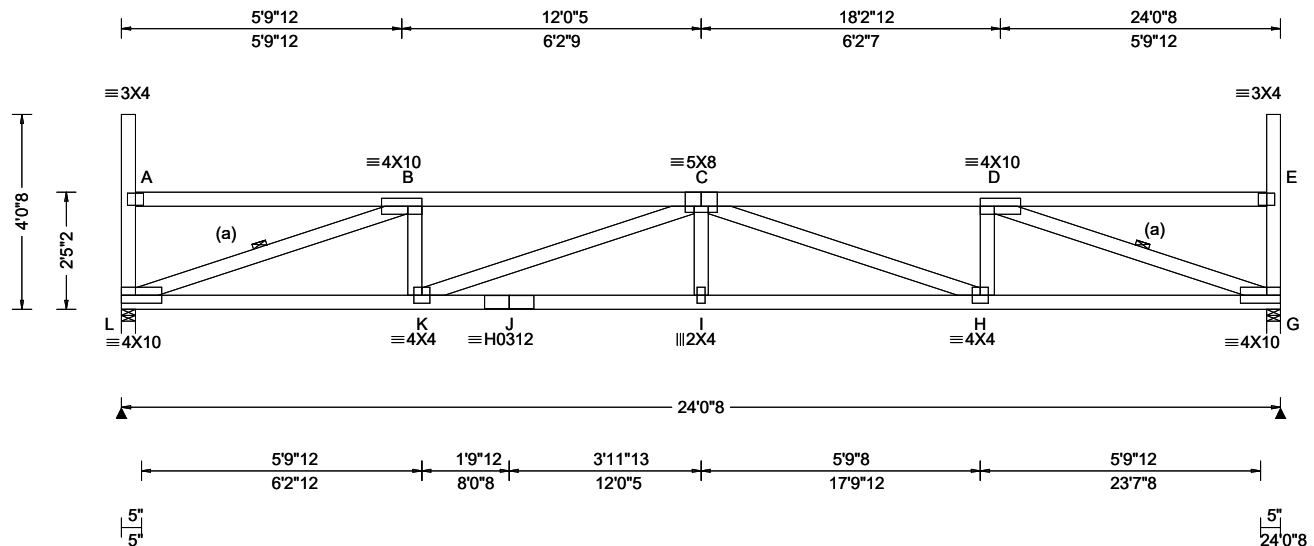
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34050 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T41	Cust: R9316 JRef: 1X1293160008 T151 DrwNo: 117.22.1513.35987 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.275 I 999 360 VERT(CL): 0.471 I 612 240 HORZ(LL): 0.065 G - - HORZ(TL): 0.112 G - - Creep Factor: 2.0 Max TC CSI: 0.516 Max BC CSI: 0.565 Max Web CSI: 0.703 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /81 /128 G 1422 /- /- /611 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 182 -3257 C - D 182 -3255

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

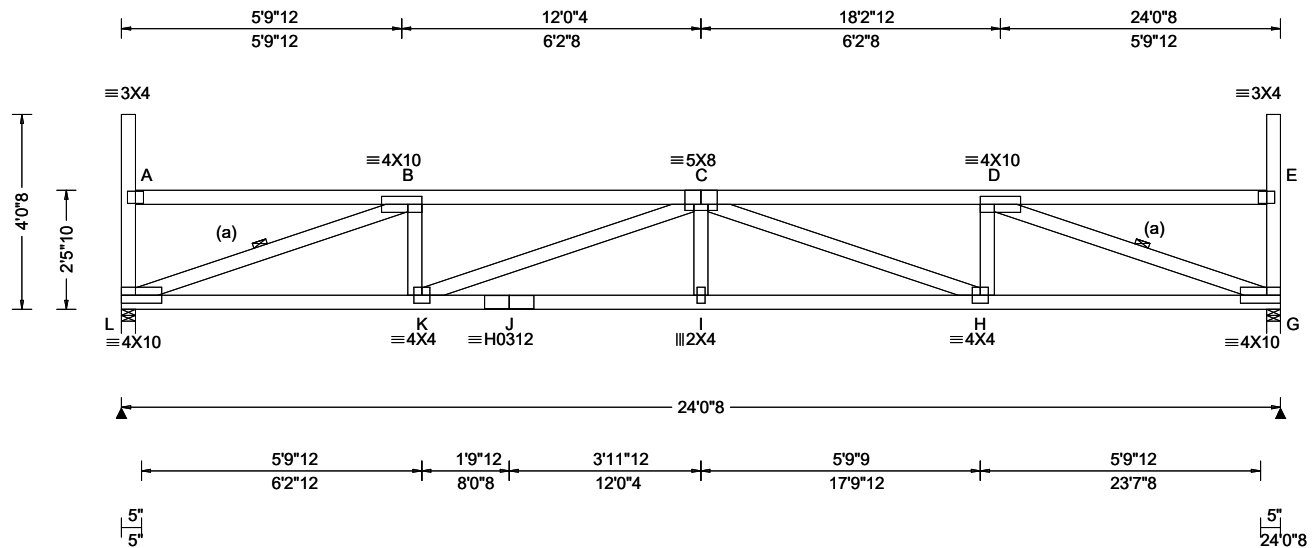


04/27/2022

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Glenview, IL 60025

SEQN: 34051 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T42	Cust: R9316 JRef: 1X1293160008 T164 DrwNo: 117.22.1513.49013 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.265 I 999 360 VERT(CL): 0.454 I 635 240 HORZ(LL): 0.064 G - - HORZ(TL): 0.110 G - - Creep Factor: 2.0 Max TC CSI: 0.510 Max BC CSI: 0.559 Max Web CSI: 0.693 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /81 /127 G 1422 /- /- /611 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 179 -3196 C - D 179 -3195

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



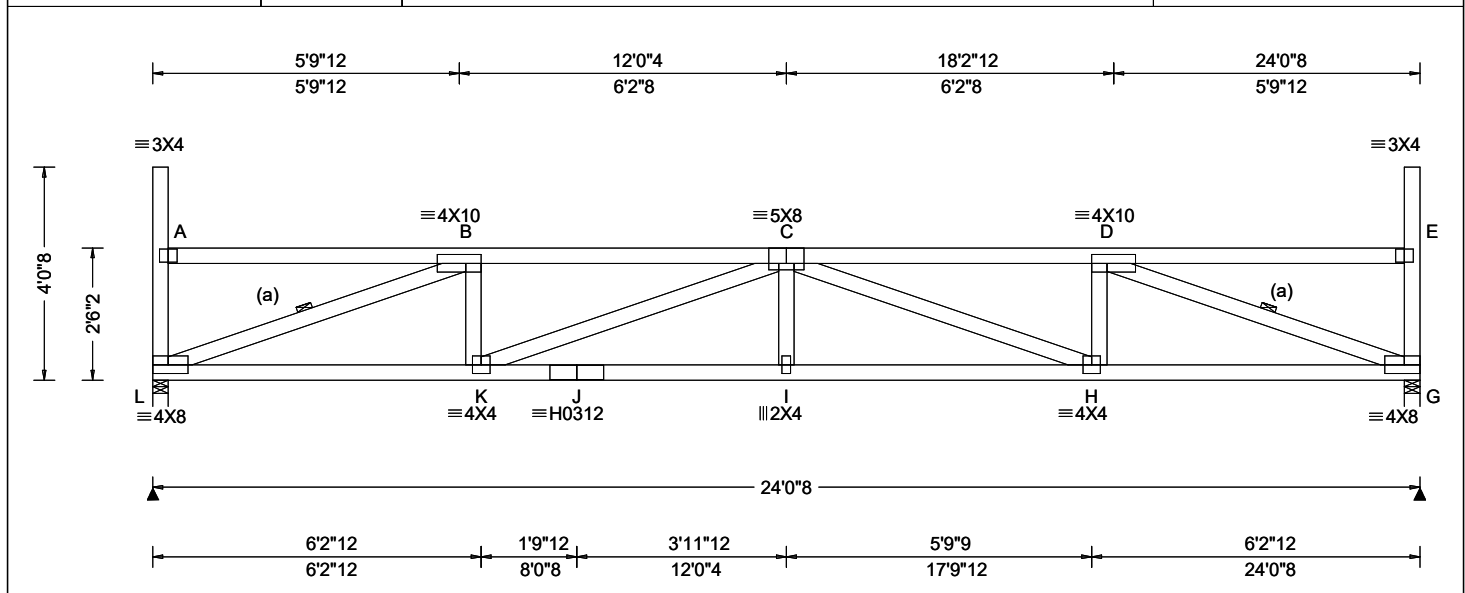
04/27/2022

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34052 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T43	Cust: R 9316 JRef: 1X1293160008 T161 DrwNo: 117.22.1513.57637 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.438 I 658 240 HORZ(LL): 0.063 G - - HORZ(TL): 0.108 G - - Creep Factor: 2.0 Max TC CSI: 0.507 Max BC CSI: 0.553 Max Web CSI: 0.684 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /81 /126 G 1422 /- /- /611 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 176 -3137 C - D 177 -3136

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Chords Tens.Comp. Chords Tens. Comp. L - K 3049 -289 I - H 4020 -261 K - J 4020 -261 H - G 3048 -180 J - I 4020 -261

Bracing	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Webs Tens.Comp. Webs Tens. Comp. L - B 199 -3213 C - H 105 -947 B - K 675 0 H - D 674 0 K - C 106 -946 D - G 198 -3212

Loading
Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.53 20.04 4.83 23.75 0.00 23.46 1.53 20.04 4.83 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

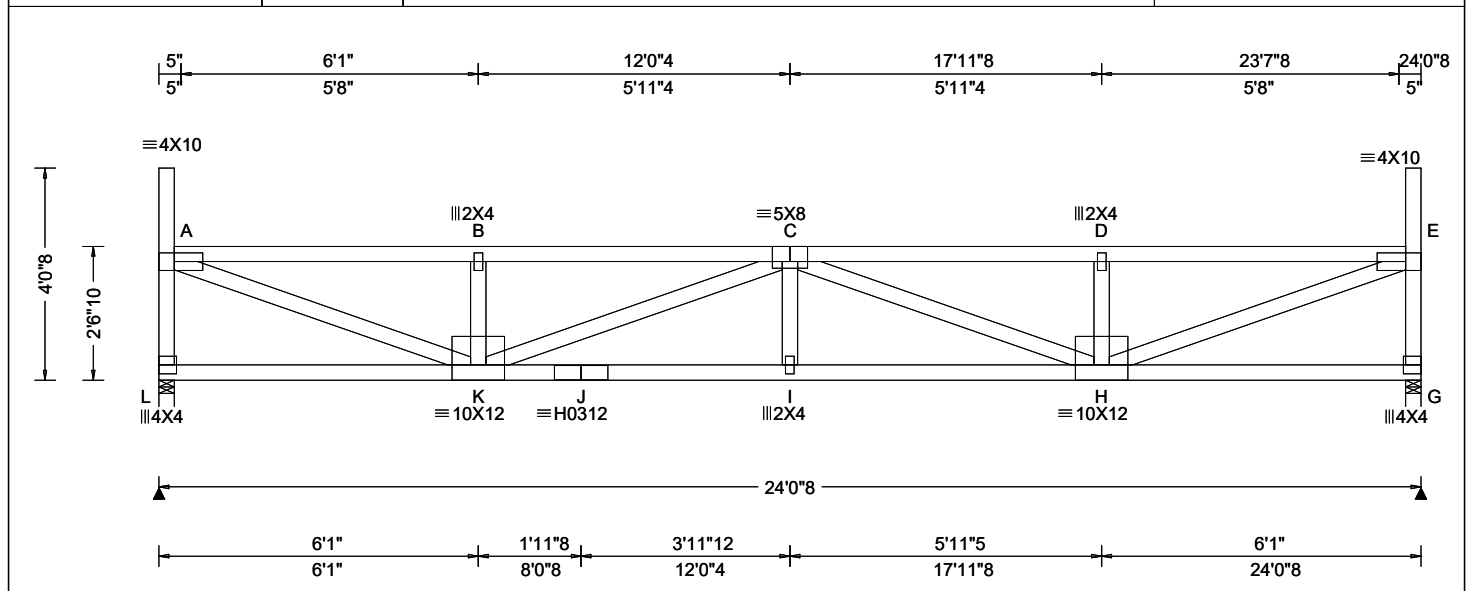
Additional Notes
Truss must be installed as shown with top chord up.



04/27/2022

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SEQN: 34053 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T44	Cust: R 9316 JRef: 1X1293160008 T143 DrwNo: 117.22.1514.03177 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.55 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.260 I 999 360 VERT(CL): 0.445 I 647 240 HORZ(LL): 0.048 A - - HORZ(TL): 0.082 A - - Creep Factor: 2.0 Max TC CSI: 0.642 Max BC CSI: 0.540 Max Web CSI: 0.774 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /82 /125 G 1422 /- /- /611 /82 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 178 -3063 C - D 177 -3057 B - C 177 -3058 D - E 178 -3062

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

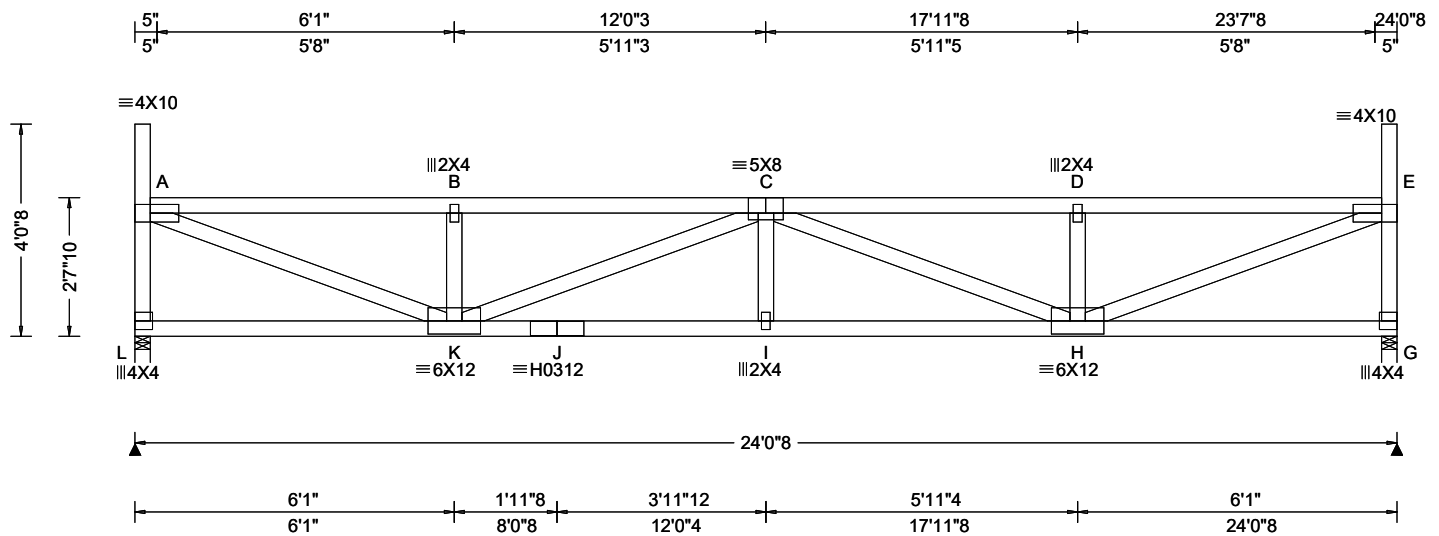


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SEQN: 34055	FLAT	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T148
FROM:		Qty: 2	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 117.22.1514.14993
			Truss Label: T46	/ NDW 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.243 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.416 I 692 240	L 1422 /- /- /611 /82 /122
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.046 A - -	G 1422 /- /- /611 /82 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.080 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.64 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.618	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.528	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.750	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			A - B 173 -2956 C - D 172 -2951
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	A - B 173 -2956 C - D 172 -2951

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

04/27/2022
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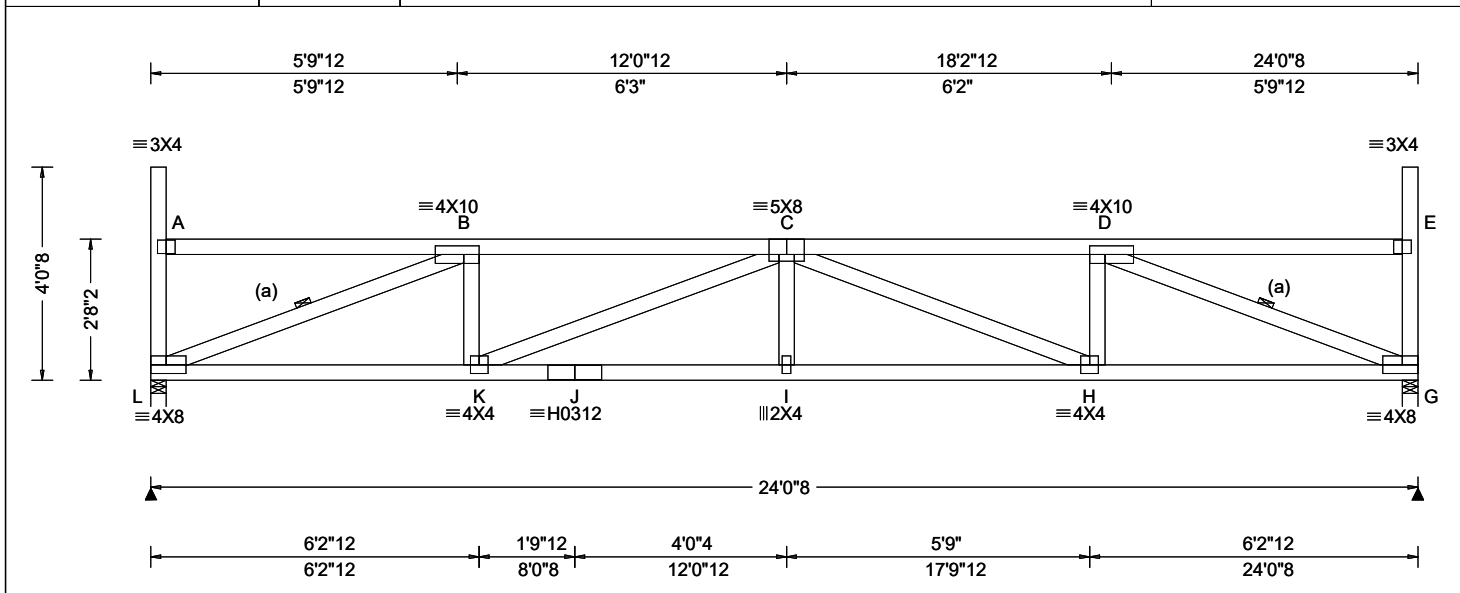
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34056	FLAT	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T163
FROM:		Qty: 2	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 117.22.1514.18603
			Truss Label: T47	/ NDW 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.224 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.383 I 752 240	L 1422 /- /- /611 /82 /121
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.058 G - -	G 1422 /- /- /611 /82 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.100 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.68 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.501	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.534	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.652	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	B - C 166 -2923 C - D 166 -2920

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

(a) Continuous lateral restraint equally spaced on member

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.22" DL: 0.16". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



04/27/2022

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****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

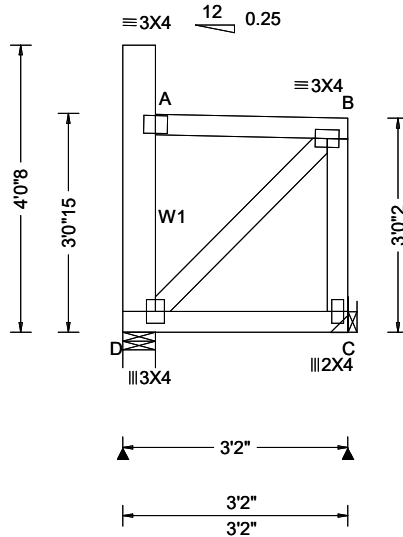
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34057	MONO	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T139
FROM:		Qty: 9	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 117.22.1514.23170
			Truss Label: T48	/ NDW 04/27/2022



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria				▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#				Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph	Pf: 15.4 Ce: 1.0		VERT(LL): 0.000 B 999 360				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed	Lu: - Cs: 1.00		VERT(CL): 0.001 B 999 240				D	160	/-	/-	/95	/52	/78
BCDL: 10.00		Risk Category: II	Snow Duration: 1.15		HORZ(LL): 0.001 A - -				C	188	/-	/-	/134	/46	/-
Des Ld: 60.00		EXP: B Kzt: NA			HORZ(TL): 0.001 A - -				Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 22.04 ft			Creep Factor: 2.0				D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf	Building Code:		Max TC CSI: 0.139				C Brg Wid = - Min Req = -						
Load Duration: 1.15		BCDL: 3.0 psf	IBC 2018		Max BC CSI: 0.103				Bearing D is a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h	TPI Std: 2014		Max Web CSI: 0.028				Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft	Rep Fac: Yes												
		Loc. from endwall: not in 29.00 ft	FT/RT:20(0)/10(0)												
		GCpi: 0.18	Plate Type(s):												
		Wind Duration: 1.60	WAVE												
					VIEW Ver: 21.02.00.1005.17										

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Truss must be installed as shown with top chord up.



04/27/2022

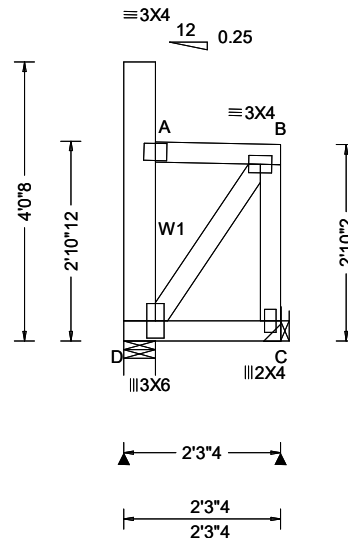
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34059 FROM:	MONO Qty: 20	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T49	Cust: R 9316 JRef: 1X1293160008 T230 DrwNo: 117.22.1514.30670 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.87 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.065 Max BC CSI: 0.052 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 107 /- /- /87 /77 /80 C 133 /- /- /135 /60 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.16	7.63 1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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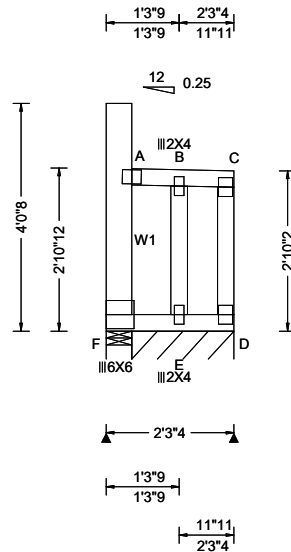
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34060 FROM:	MONO Qty: 5	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T50	Cust: R 9316 JRef: 1X1293160008 T128 DrwNo: 117.22.1514.34290 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.87 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.006 A 999 360 VERT(CL): 0.008 A 999 240 HORZ(LL): 0.111 B - - HORZ(TL): 0.128 B - - Creep Factor: 2.0 Max TC CSI: 0.110 Max BC CSI: 0.254 Max Web CSI: 0.115 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 33 /-11 /- /96 /138 /80 D* 128 /- /- /130 /57 /- Wind reactions based on MWFRS F Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 21.7 Min Req = - Bearings F & F are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

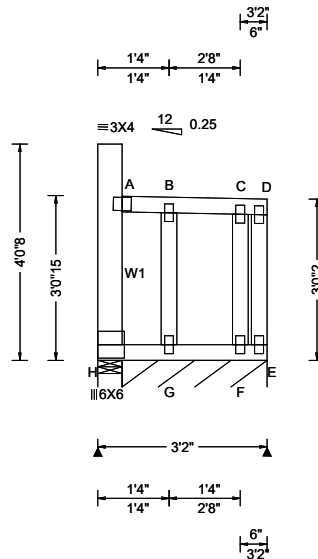


04/27/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34061	GABL	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T114
FROM:		Qty: 5	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 117.22.1514.37540
			Truss Label: T51	/ NDW 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=-PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240	H 41 /- /- /117 /130 /90
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.121 C - -	E* 113 /- /- /96 /43 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.142 B - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.04 ft	Building Code:	Creep Factor: 2.0	H Brg Wid = 5.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.087	E Brg Wid = 32.5 Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.243	Bearings H & H are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.109	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: not in 29.00 ft	Plate Type(s):		
	GCpi: 0.18	WAVE		
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Fasten rated sheathing to one face of this frame.

All plates are 2X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



04/27/2022

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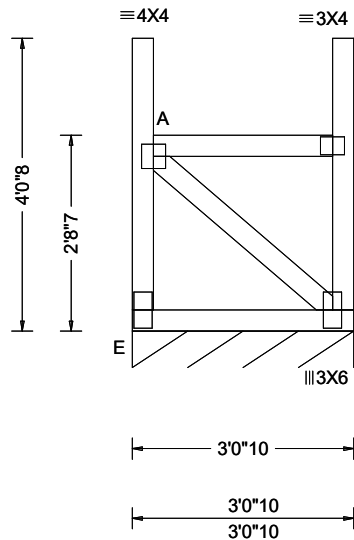
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34062 FROM:	GABL Qty: 5	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T52	Cust: R 9316 JRef: 1X1293160008 T216 DrwNo: 117.22.1514.44333 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): -0.001 B - - HORZ(TL): 0.002 B - - Creep Factor: 2.0 Max TC CSI: 0.142 Max BC CSI: 0.107 Max Web CSI: 0.221 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 113 /- /- /45 /4 /39 Wind reactions based on MWFRS D Brg Wid = 36.6 Min Req = - Bearing E is a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. A - D 382 -387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.00	1.34	13.63	2.47
2.76	0.00	20.00	1.34	13.63	2.47

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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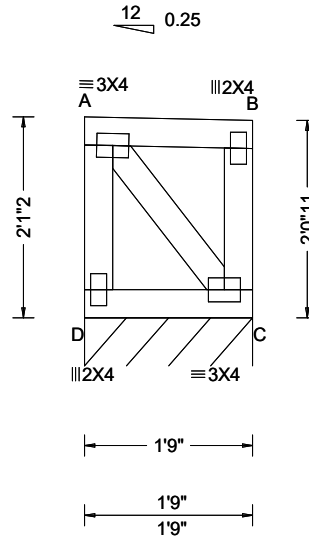
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34063	MONO	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T188
FROM:		Qty: 10	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 117.22.1514.48587
			Truss Label: TGE01	/ NDW 04/27/2022



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Pf: 15.4 Ce: 1.0	PP Deflection in loc L/defl L/#	Gravity Non-Gravity						
TCDL: 15.00	Speed: 109 mph	Lu: - Cs: 1.00		VERT(LL): 0.000 A 999 360	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL: 15.00	Enclosure: Closed	Snow Duration: 1.15		VERT(CL): 0.000 A 999 240	C*	120	/-	/-	/51	/5	/19
BCDL: 10.00	Risk Category: II			HORZ(LL): 0.000 B - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA			HORZ(TL): 0.000 B - -	C Brg Wid = 21.0 Min Req = -						
NCBCLL: 0.00	Mean Height: 21.08 ft	Building Code:		Creep Factor: 2.0	Bearing D is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018		Max TC CSI: 0.046	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014		Max BC CSI: 0.032							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes		Max Web CSI: 0.021							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)									
	Loc. from endwall: Any	Plate Type(s):									
	GCpi: 0.18										
	Wind Duration: 1.60	WAVE		VIEW Ver: 21.02.00.1005.17							

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Truss must be installed as shown with top chord up.



****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**

****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

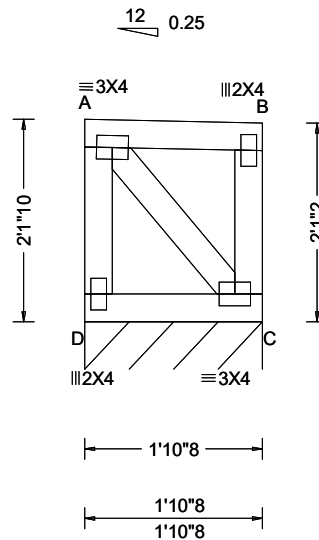
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SEQN: 34064 FROM:	MONO Qty: 10	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE02	Cust: R 9316 JRef: 1X1293160008 T189 DrwNo: 117.22.1515.05987 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.12 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.022 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /5 /18 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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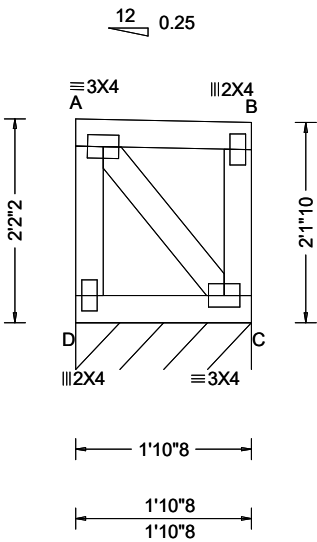
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34065 FROM:	MONO Qty: 10	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE03	Cust: R 9316 JRef: 1X1293160008 T190 DrwNo: 117.22.1515.10613 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.16 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.023 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

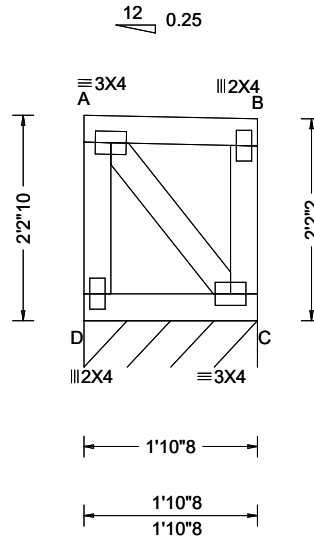
Truss must be installed as shown with top chord up.



04/27/2022

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SEQN: 34066	MONO	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T192
FROM:		Qty: 10	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 117.22.1515.13693
			Truss Label: TGE04	/ NDW 04/27/2022



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Pf: 15.4 Ce: 1.0	PP Deflection in loc L/defl L/#	Gravity Non-Gravity						
TCDL: 15.00	Speed: 109 mph	Lu: - Cs: 1.00	Snow Duration: 1.15	VERT(LL): 0.000 A 999 360	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL: 15.00	Enclosure: Closed			VERT(CL): 0.000 A 999 240	C*	120	/-	/-	/51	/5	/19
BCDL: 10.00	Risk Category: II			HORZ(LL): 0.000 B - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA			HORZ(TL): 0.000 B - -	C Brg Wid = 22.5 Min Req = -						
NCBCLL: 0.00	Mean Height: 21.20 ft	Building Code:		Creep Factor: 2.0	Bearing D is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018		Max TC CSI: 0.053	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014		Max BC CSI: 0.038							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes		Max Web CSI: 0.024							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)									
	Loc. from endwall: Any	Plate Type(s):									
	GCpi: 0.18										
	Wind Duration: 1.60	WAVE		VIEW Ver: 21.02.00.1005.17							

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Truss must be installed as shown with top chord up.



04/27/2022

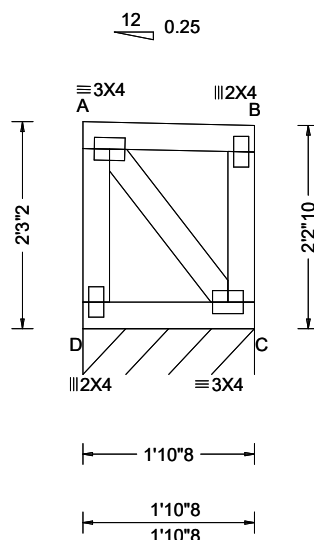
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34067 FROM:	MONO Qty: 10	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE05	Cust: R 9316 JRef: 1X1293160008 T215 DrwNo: 117.22.1515.16750 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /5 /20 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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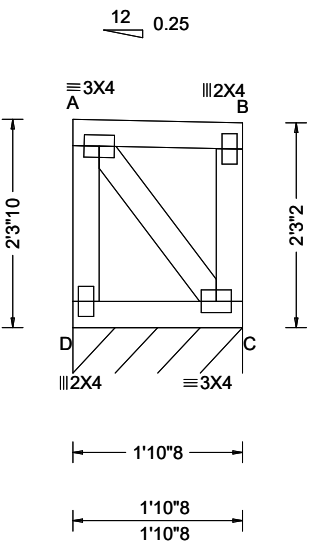
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34068 FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE06	Cust: R 9316 JRef:1X1293160008 T219 DrwNo: 117.22.1515.19443 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.28 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.026 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

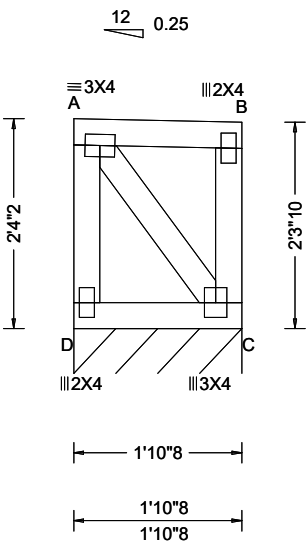


04/27/2022

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SEQN: 34069 FROM:	MONO Qty: 10	Ply: 1	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE07	Cust: R 9316 JRef: 1X1293160008 T220 DrwNo: 117.22.1515.22490 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.32 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.027 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

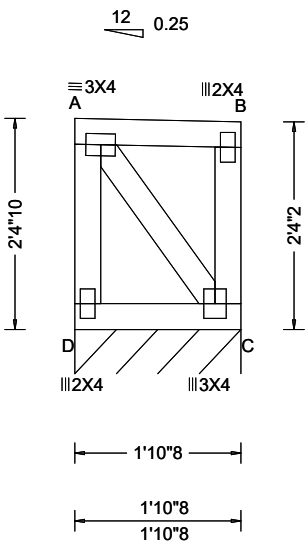
Truss must be installed as shown with top chord up.



04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 34070 FROM:	MONO Qty: 10	Ply: 1	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE08	Cust: R 9316 JRef: 1X1293160008 T221 DrwNo: 117.22.1515.25170 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

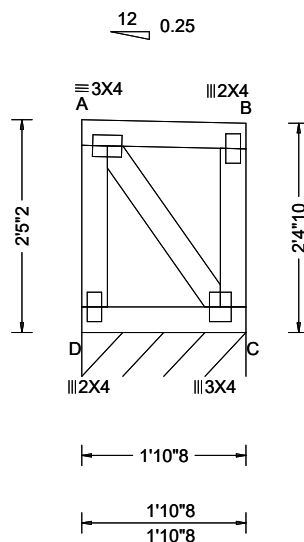
Truss must be installed as shown with top chord up.



04/27/2022

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SEQN: 34071 FROM:	MONO Qty: 10	Ply: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE09	Cust: R 9316 JRef: 1X1293160008 T222 DrwNo: 117.22.1515.28193 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.41 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.029 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /5 /22 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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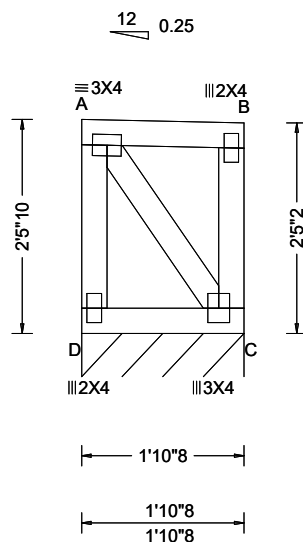
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34072 FROM:	MONO Qty: 10	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE10	Cust: R 9316 JRef: 1X1293160008 T223 DrwNo: 117.22.1515.31420 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.45 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.031 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /22 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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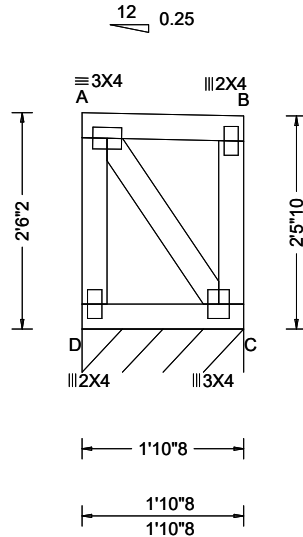
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34073	MONO	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T224
FROM:		Qty: 10	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 117.22.1515.34563
			Truss Label: TGE11	/ NDW 04/27/2022



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	VERT(LL): 0.000 A 999 360	Gravity Non-Gravity						
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(CL): 0.000 A 999 240	HORZ(LL): 0.000 B - -	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	HORZ(TL): 0.000 B - -	Creep Factor: 2.0	C*	120	/-	/-	/51	/6	/22
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15		Max TC CSI: 0.053	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		Building Code:	Max BC CSI: 0.038	C Brg Wid = 22.5 Min Req = -						
NCBCLL: 0.00	Mean Height: 21.49 ft		IBC 2018	Max Web CSI: 0.032	Bearing D is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf		TPI Std: 2014		Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf		Rep Fac: Yes								
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		FT/RT:20(0)/10(0)								
	Loc. from endwall: Any		Plate Type(s):								
	GCpi: 0.18		WAVE								
	Wind Duration: 1.60			VIEW Ver: 21.02.00.1005.17							

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Truss must be installed as shown with top chord up.



TRUSS/2022

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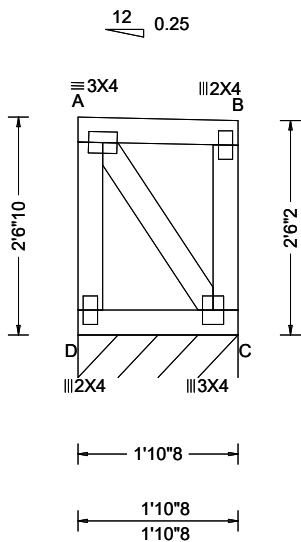
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SEQN: 34074 FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE12	Cust: R 9316 JRef: 1X1293160008 T225 DrwNo: 117.22.1515.37227 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

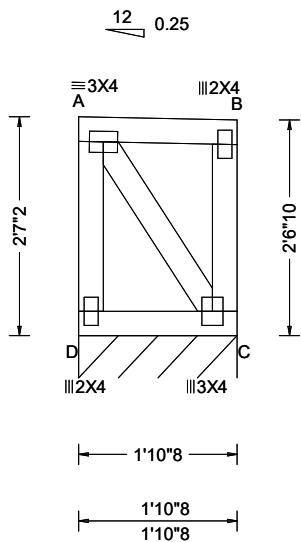
Truss must be installed as shown with top chord up.



04/27/2022

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SEQN: 34075 FROM:	MONO Qty: 10	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE13	Cust: R 9316 JRef: 1Xf293160008 T226 DrwNo: 117.22.1515.40100 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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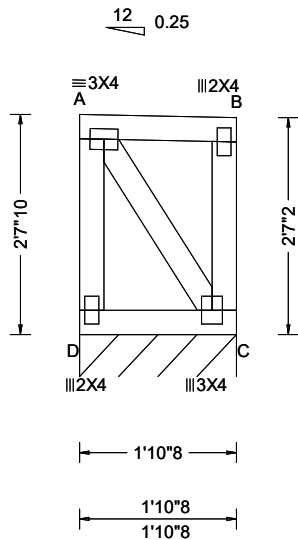
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34076 FROM:	MONO Qty: 10	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE14	Cust: R 9316 JRef:1X1293160008 T227 DrwNo: 117.22.1515.43257 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.036 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

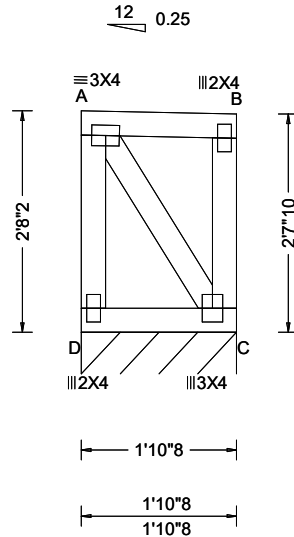


04/27/2022

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SEQN: 34077 FROM:	MONO Qty: 10	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE15	Cust: R 9316 JRef: 1X1293160008 T228 DrwNo: 117.22.1515.46513 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.037 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /24 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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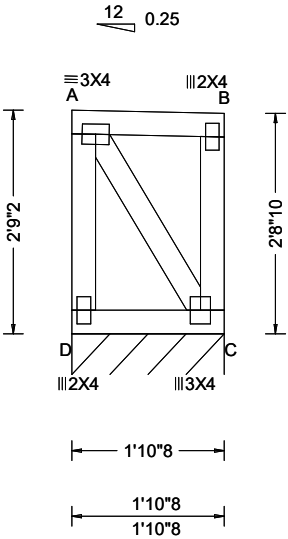
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34078 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE16	Cust: R 9316 JRef: 1X1293160008 T251 DrwNo: 117.22.1515.50400 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

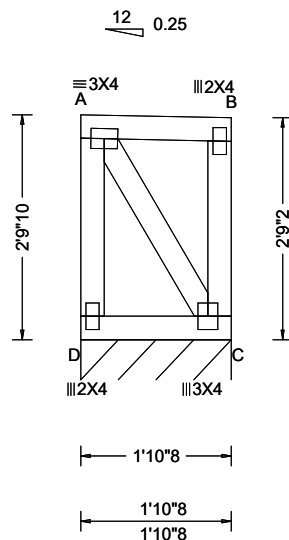
Truss must be installed as shown with top chord up.



04/27/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com ; TPI: tpinst.org ; SBCA: sbcacompnents.com ; ICC: iccsafe.org ; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 34079 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE17	Cust: R 9316 JRef: 1X1293160008 T252 DrwNo: 117.22.1515.54067 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /26 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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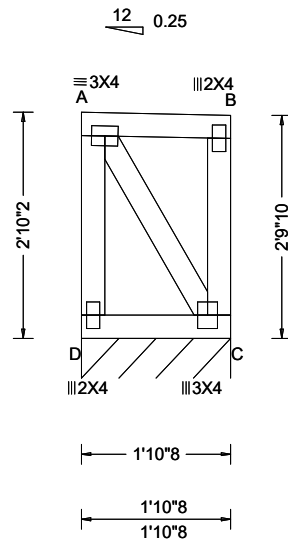
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34080 FROM:	MONO Qty: 8	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE18	Cust: R 9316 JRef: 1X1293160008 T253 DrwNo: 117.22.1515.58287 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.82 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /26 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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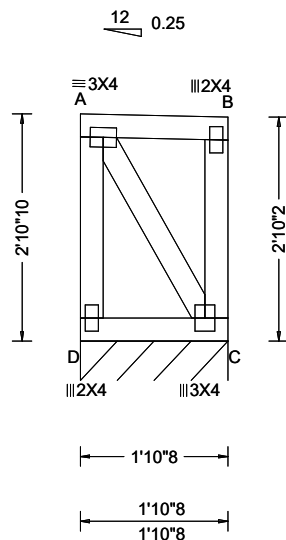
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34081	MONO	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T254
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 117.22.1516.03073
			Truss Label: TGE19	/ NDW 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240	C* 120 /- /- /51 /6 /27
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	Wind reactions based on MWFRS
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	C Brg Wid = 22.5 Min Req = -
NCBCLL: 0.00	Mean Height: 22.53 ft	Building Code:	Creep Factor: 2.0	Bearing D is a rigid surface.
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Members not listed have forces less than 375#
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.038	
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.044	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18	WAVE		
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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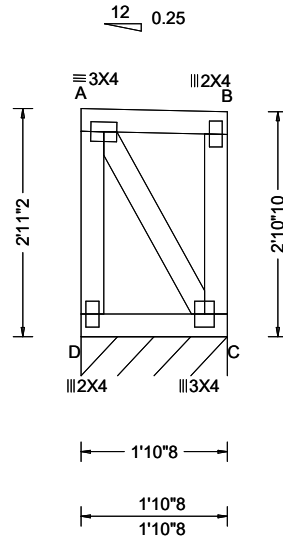
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 5

SEQN: 34082 FROM:	MONO Ply: 1 Qty: 3	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE20	Cust: R 9316 JRef: 1X1293160008 T255 DrwNo: 117.22.1516.06280 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.046 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /28 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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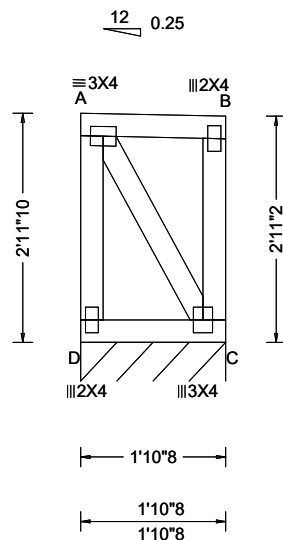
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34083	MONO	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T256
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 117.22.1516.11080
			Truss Label: TGE21	/ NDW 04/27/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240	C* 120 /- /- /51 /6 /28
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	Wind reactions based on MWFRS
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	C Brg Wid = 22.5 Min Req = -
NCBCLL: 0.00	Mean Height: 21.95 ft	Building Code:	Creep Factor: 2.0	Bearing D is a rigid surface.
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Members not listed have forces less than 375#
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.038	
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.047	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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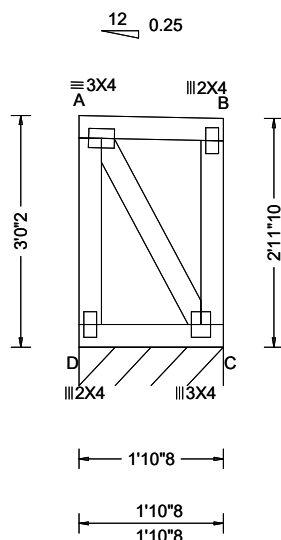
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34084 FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE22	Cust: R 9316 JRef: 1X1293160008 T257 DrwNo: 117.22.1516.14890 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.049 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /29 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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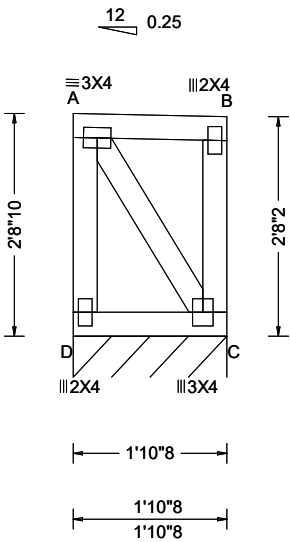
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34085 FROM:	MONO Ply: 1 Qty: 3	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE23	Cust: R 9316 JRef:1Xf293160008 T231 DrwNo: 117.22.1516.20030 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.038 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

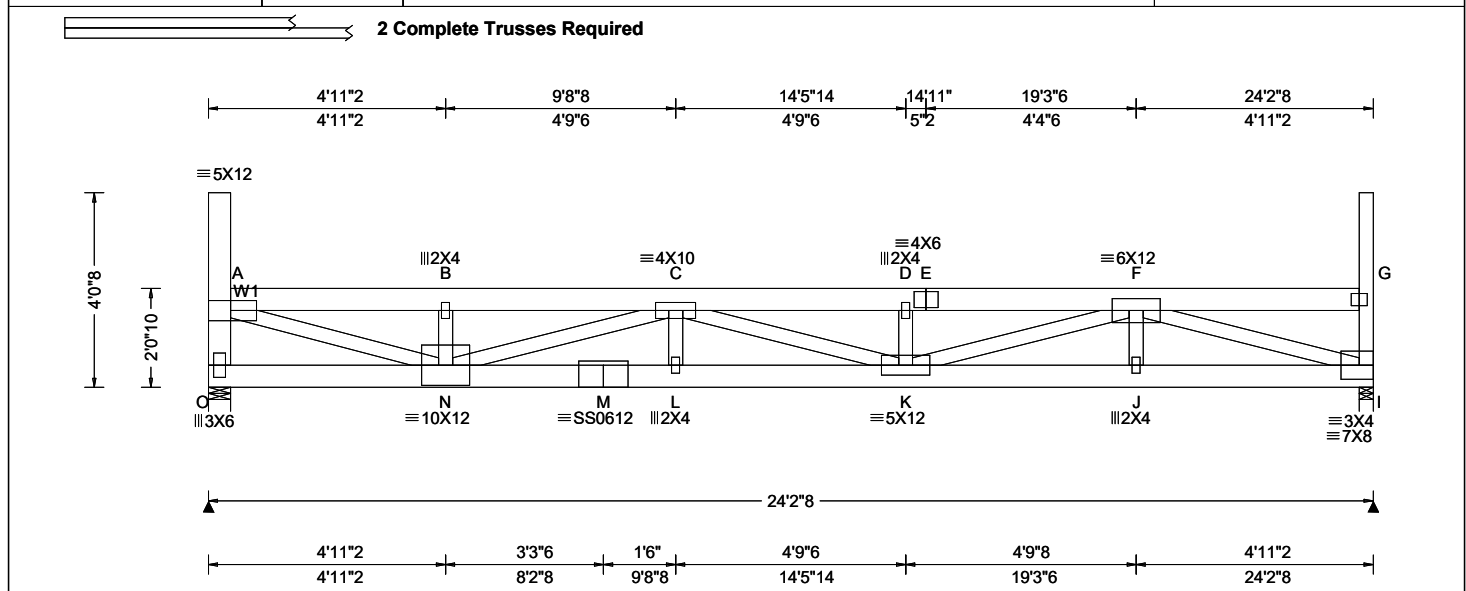
Truss must be installed as shown with top chord up.



04/27/2022

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SEQN: 34095 FROM:	FLAT Qty: 2	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T16	Cust: R 9316 JRef: 1X1293160008 T18 DrwNo: 117.22.1510.23493 / NDW 04/27/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)								
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg:	20.0	Ct:	1.1	CAT:	II	GravityNon-Gravity						
TCDL:	15.00	Speed:	109 mph	Pf:	15.4	Ce:	1.0			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure:	Closed	Lu:	-	Cs:	1.00			O	2301	/-	/-	/-	/390	/-
BCDL:	10.00	Risk Category:	II	Snow Duration:	1.15					I	2308	/-	/-	/-	/396	/-
Des Ld:	60.00	EXP:	B	Kzt:	NA					Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height:	21.05 ft			Building Code:				O	Brg	Wid = 5.5	Min Req = 1.8	(Truss)		
Soffit:	2.00	TCDL:	5.0 psf			IBC 2018				I	Brg	Wid = 3.5	Min Req = 1.8	(Truss)		
Load Duration:	1.15	BCDL:	3.0 psf			TPI Std:	2014			Bearings O & I are a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2			Rep Fac:	Varies by Ld Case			Members not listed have forces less than 375#						
		C&C Dist a:	3.00 ft			FT/RT:	20(0)/10(0)			Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall:	Any			Plate Type(s):				Chords	Tens.Comp.	Chords	Tens. Comp.			
		GCpi:	0.18							A - B	515 - 2972	D - E	772 - 4360			
		Wind Duration:	1.60			WAVE:	18SS									
										VIEW Ver: 21.02.00.1005.17						

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
——(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 50 plf at 0.00 to 50 plf at 24.21
BC: 160 lb Conc. Load at 2.06, 10.06, 12.06, 14.06, 16.06, 20.06, 22.06
BC: 158 lb Conc. Load at 4.06, 6.06, 8.06, 18.06

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.99 34.38 4.14
23.92 0.00 23.46 1.99 34.38 4.14
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

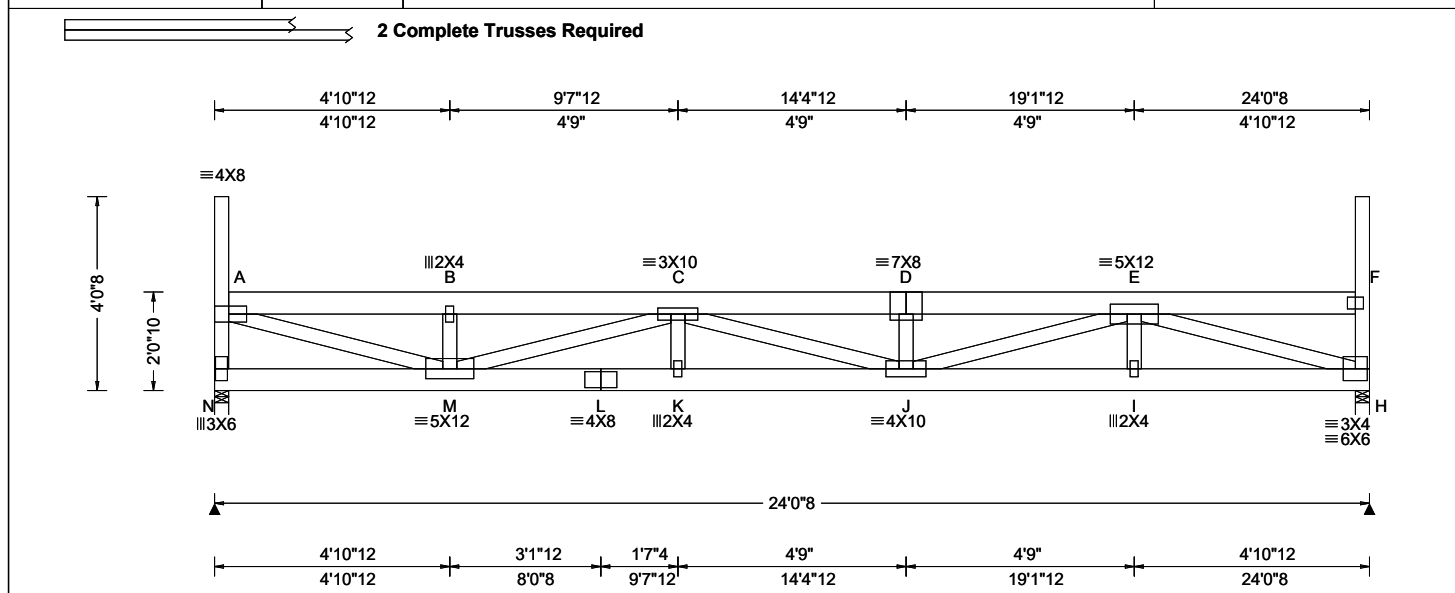


04/27/2022

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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34097 FROM:	FLAT Qty: 1	Ply: 2	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T32	Cust: R 9316 JRef: 1X1293160008 T12 DrwNo: 117.22.1512.35983 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.182 D 999 360 VERT(CL): 0.311 D 926 240 HORZ(LL): 0.028 H - - HORZ(TL): 0.047 H - - Creep Factor: 2.0 Max TC CSI: 0.125 Max BC CSI: 0.426 Max Web CSI: 0.582 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1601 -/- /- /- /366 -/ H 1633 -/- /- /- /367 -/ Wind reactions based on MWFRS N Brg Wid = 3.5 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 480 -2060 C - D 714 -3020 B - C 479 -2055 D - E 714 -3020

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs: 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

---(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.29 to 35 plf at 23.75
BC: From 25 plf at 0.00 to 25 plf at 21.90
BC: From 50 plf at 21.90 to 50 plf at 24.04
BC: 160 lb Conc. Load at 1.90, 7.90, 9.90, 11.90
13.90, 15.90, 19.90, 21.90
BC: 158 lb Conc. Load at 3.90, 5.90, 17.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.18" DL: 0.13". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

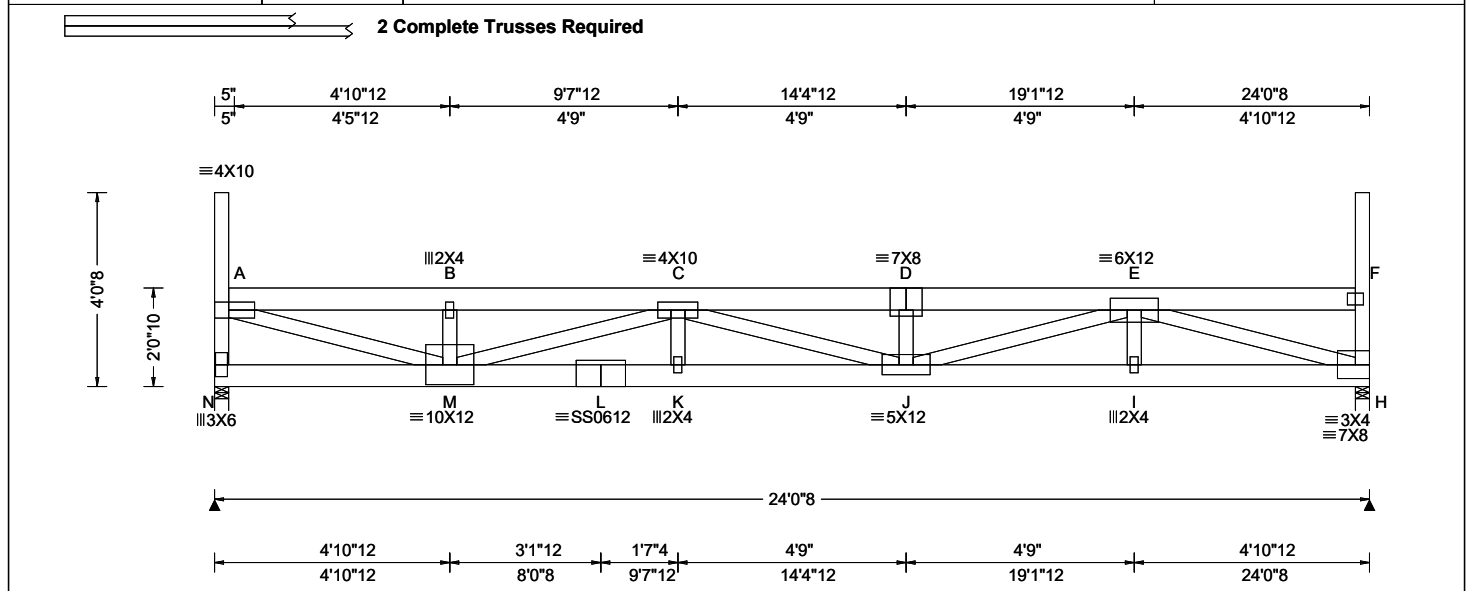


04/27/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34098 FROM:	FLAT Qty: 1	Ply: 2	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T32	Cust: R 9316 JRef: 1X1293160008 T20 DrwNo: 117.22.1512.41580 / NDW 04/27/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)											
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in	loc	L/def	L/#	Gravity			Non-Gravity					
TCDL:	15.00	Speed:	109 mph	Pf: 15.4		Ce: 1.0	VERT(LL):	0.258	D	999	360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00		VERT(CL):	0.443	D	651	240	N	2304	/-	/-	/-	/375	/-	
BCDL:	10.00	Risk Category:	II	Snow Duration:	1.15		HORZ(LL):	0.039	H	-	-	H	2288	/-	/-	/-	/377	/-	
Des Ld:	60.00	EXP:	B	Kzt:	NA		HORZ(TL):	0.067	H	-	-	Wind reactions based on MWFRS							
NCBCLL:	0.00	Mean Height:	21.05 ft			Building Code:	Creep Factor:					2.0	N Brg Wid = 3.5 Min Req = 1.8 (Truss)						
Soffit:	2.00	TCDL:	5.0 psf			IBC 2018	Max TC CSI:					0.204	H Brg Wid = 3.5 Min Req = 1.8 (Truss)						
Load Duration:	1.15	BCDL:	3.0 psf			TPI Std:	2014	Max BC CSI:					0.594	Bearings N & H are a rigid surface.					
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2			Rep Fac:	Varies by Ld Case					Members not listed have forces less than 375#							
		C&C Dist a:	3.00 ft			FT/RT:	20(0)/10(0)						Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall:	Any			Plate Type(s):						Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi:	0.18									A - B		492 - 2935		C - D		731 - 4292	
		Wind Duration:	1.60			WAVE, 18SS						VIEW Ver:		21.02.00.1005.17					

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
 Bot chord: 2x6 SPF 1650f-1.5E;
 Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule: 0.128"x3", min. nails
 Top Chord: 1 Row @12.00" o.c.
 Bot Chord: 1 Row @11.25" o.c.
 Webs : 1 Row @ 4" o.c.
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 70 plf at 0.29 to 70 plf at 23.75
 BC: From 50 plf at 0.00 to 50 plf at 24.04
 BC: 158 lb Conc. Load at 1.90, 3.90, 5.90, 7.90
 9.90, 15.90, 17.90, 19.90
 BC: 160 lb Conc. Load at 11.90, 13.90, 21.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.29	0.00	23.46	1.99	34.38 4.14
	23.75	0.00	23.46	1.99	34.38 4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
 Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
 End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations.
 Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	4291 -727	J - I	2915 -493
L - K	4291 -727	I - H	2915 -493
K - J	4291 -727		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - A	166 -1035	J - E	1453 -251
A - M	2956 -497	E - H	513 -3025
M - C	249 -1438		



04/27/2022

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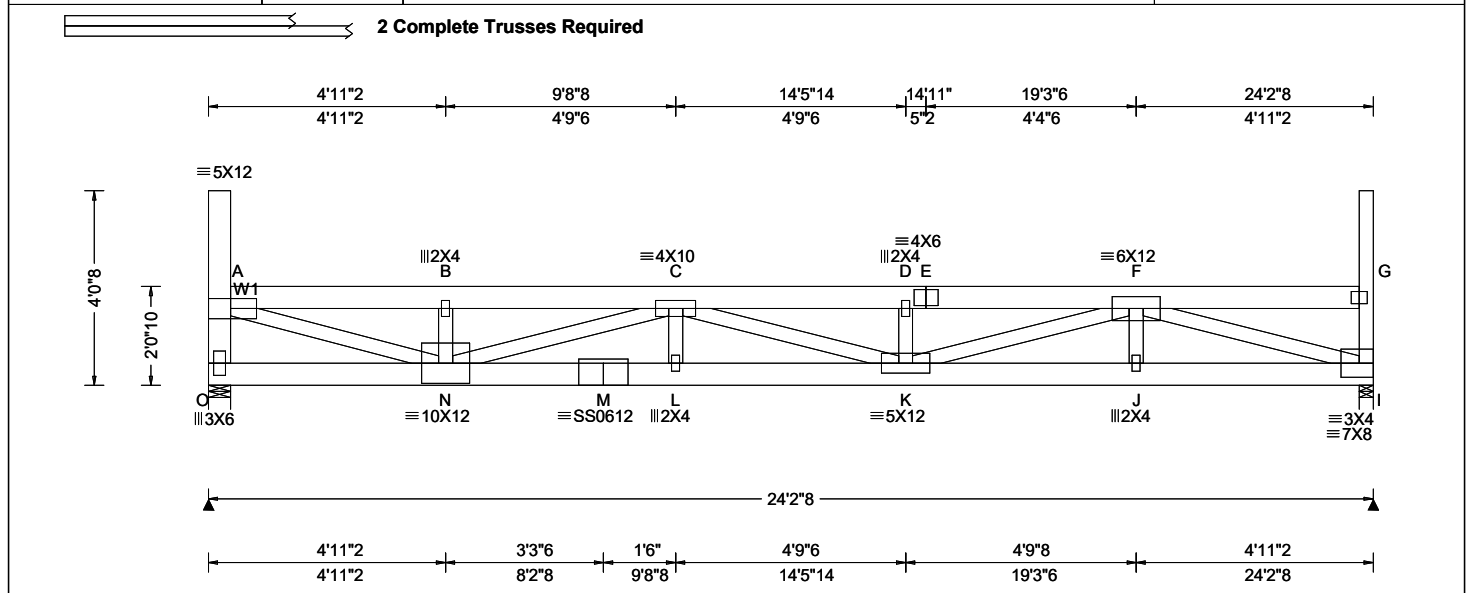
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 For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

SEQN: 34096 FROM:	FLAT Qty: 1	Ply: 2	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T16	Cust: R 9316 JRef: 1X1293160008 T21 DrwNo: 117.22.1510.29380 / NDW 04/27/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)								
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg:	20.0	Ct:	1.1	CAT:	II	Gravity						
TCDL:	15.00	Speed:	109 mph	Pf:	15.4	Ce:	1.0			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure:	Closed	Lu:	-	Cs:	1.00			O	2295	/-	/-	/-	/391	/-
BCDL:	10.00	Risk Category:	II	Snow Duration:	1.15					I	2309	/-	/-	/-	/379	/-
		EXP:	B	Kzt:	NA					Wind reactions based on MWFRS						
Des Ld:	60.00									O	Brg Wid = 5.5	Min Req = 1.8	(Truss)			
NCBCLL:	0.00	Mean Height:	21.05 ft							I	Brg Wid = 3.5	Min Req = 1.8	(Truss)			
Soffit:	2.00	TCDL:	5.0 psf							Bearings O & I are a rigid surface.						
Load Duration:	1.15	BCDL:	3.0 psf							Members not listed have forces less than 375#						
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2							Maximum Top Chord Forces Per Ply (lbs)						
		C&C Dist a:	3.00 ft							Chords	Tens.Comp.	Chords	Tens. Comp.			
		Loc. from endwall:	Any							A - B	520 - 2971	D - E	751 - 4355			
		GCpi:	0.18													
		Wind Duration:	1.60													

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

——(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 50 plf at 0.00 to 50 plf at 24.21
BC: 160 lb Conc. Load at 2.15, 6.15, 8.15, 10.15, 12.15
BC: 158 lb Conc. Load at 4.15, 14.15, 16.15, 18.15, 20.15, 22.15

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.99	34.38 4.14
	23.92	0.00	23.46	1.99	34.38 4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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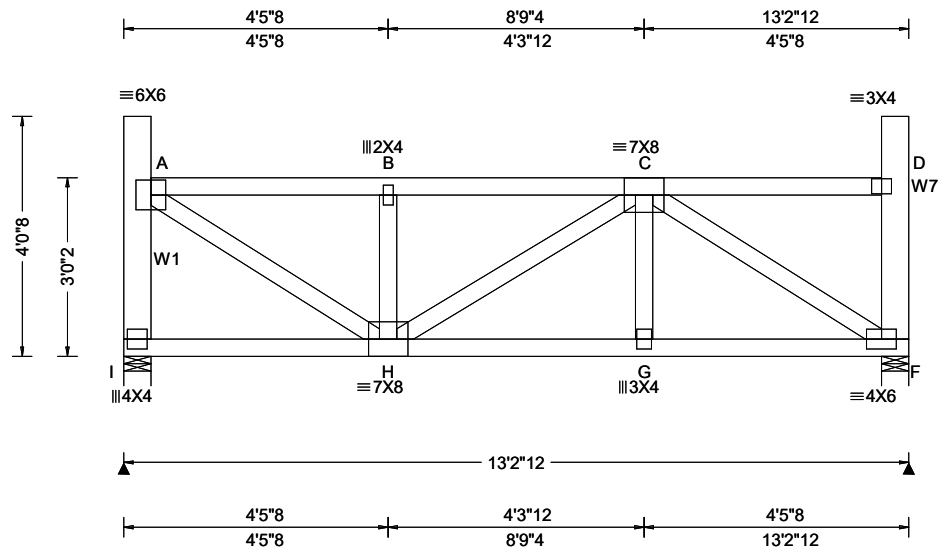
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34092	FLAT	Ply: 1	Job Number: JB-220686	Cust: R 9316 JRef: 1Xf293160008 T19
FROM:		Qty: 1	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 117.22.1506.14687
			Truss Label: T09A	/ NDW 04/27/2022



Leading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.037 G 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CR): 0.063 G 999 240	I 1196 /- /- /- /164 /-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.013 F - -	F 1119 /- /- /- /139 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.022 F - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.01 ft	Building Code:	Creep Factor: 2.0	I Brg Wid = 5.5 Min Req = 1.9 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.276	F Brg Wid = 5.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.790	Bearings I & F are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.693	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	A - B 195 -1470 B - C 195 -1465

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W7 2x6 SPF 1650f-1.5E;

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 70 plf at 0.46 to 70 plf at 12.77
 BC: From 25 plf at 0.00 to 25 plf at 13.23
 BC: 188 lb Conc. Load at 1.17, 3.17, 5.17, 11.17
 BC: 186 lb Conc. Load at 7.17, 9.17

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Truss must be installed as shown with top chord up.



04/27/2022

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▲ Maximum Reactions (lbs)						
Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
I	1196	/-	/-	/-	/164	/-
F	1119	/-	/-	/-	/139	/-

Wind reactions based on MWFRS

I Brg Wid = 5.5 Min Req = 1.9 (Truss)
 F Brg Wid = 5.5 Min Req = 1.8 (Truss)

Bearings I & F are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - B	195 - 1470	B - C	195 - 1465

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
H - G	1453	- 182	G - F	1453	- 182

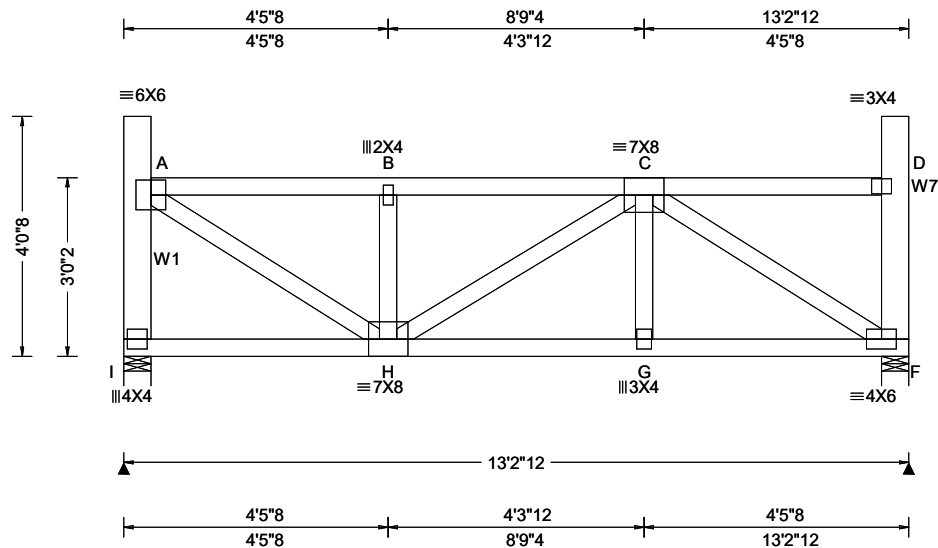
Maximum Web Forces Per Ply (lbs)					
Webs	Tens.	Comp.	Webs	Tens.	Comp.
I - A	120	-979	C - G	531	-86
A - H	1590	-209	C - F	206	-1654



ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34093 FROM:	FLAT Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T09B	Cust: R 9316 JRef: 1X1293160008 T13 DrwNo: 117.22.1506.22637 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.037 G 999 360 VERT(CL): 0.063 G 999 240 HORZ(LL): 0.013 F - - HORZ(TL): 0.022 F - - Creep Factor: 2.0 Max TC CSI: 0.276 Max BC CSI: 0.790 Max Web CSI: 0.693 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 1196 /- /- /- /164 /- F 1119 /- /- /- /139 /- Non-Gravity Wind reactions based on MWFRS I Brg Wid = 5.5 Min Req = 1.9 (Truss) F Brg Wid = 5.5 Min Req = 1.8 (Truss) Bearings I & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 195 - 1470 B - C 195 - 1465

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W7 2x6 SPF 1650f-1.5E;

Special Loads

---(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 25 plf at 0.00 to 25 plf at 13.23
BC: 188 lb Conc. Load at 1.17, 3.17, 5.17, 11.17
BC: 186 lb Conc. Load at 7.17, 9.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

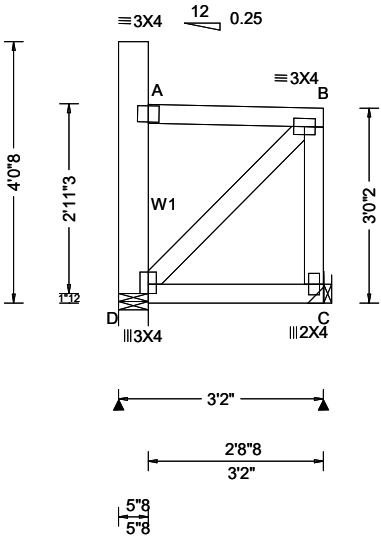


04/27/2022

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ALPINE
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34058 FROM:	MONO Ply: 1 Qty: 9	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48A	Cust: R 9316 JRef:1Xf293160008 T17 DrwNo: 117.22.1514.26283 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	139	/-	/-	/81	/42	/34
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	186	/-	/-	/113	/32	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Support)					
NCBCLL: 0.00	Mean Height: 22.04 ft	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Creep Factor: 2.0	C	Brg Wid = - Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.139	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf		Max BC CSI: 0.109	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.028							
	C&C Dist a: 3.00 ft			VIEW Ver: 21.02.00.1005.17						
	Loc. from endwall: Any									
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

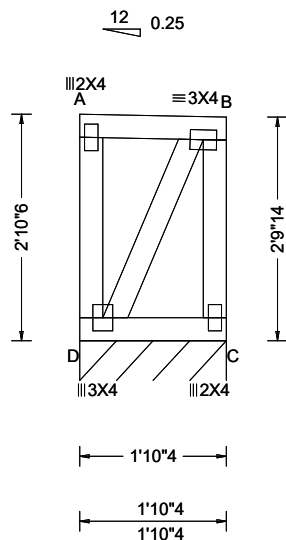
Truss must be installed as shown with top chord up.



04/27/2022

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SEQN: 34088 FROM: JRQ	MONO Ply: 1 Qty: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE26	Cust: R 9316 JRef: 1X1293160008 T16 DrwNo: 117.22.1516.29533 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.99 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.052 Max BC CSI: 0.037 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /27 Wind reactions based on MWFRS C Brg Wid = 22.3 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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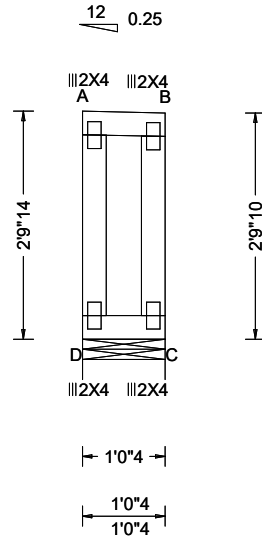
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34089 FROM: JRQ	MONO Ply: 1 Qty: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE27	Cust: R 9316 JRef: 1X1293160008 T23 DrwNo: 117.22.1516.36093 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.96 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.069 A - - HORZ(TL): 0.077 A - - Creep Factor: 2.0 Max TC CSI: 0.047 Max BC CSI: 0.051 Max Web CSI: 0.077 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C 123 /- /- /52 /6 /49 Wind reactions based on MWFRS C Brg Wid = 12.2 Min Req = 1.5 (Truss) Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

Fasten rated sheathing to one face of this frame.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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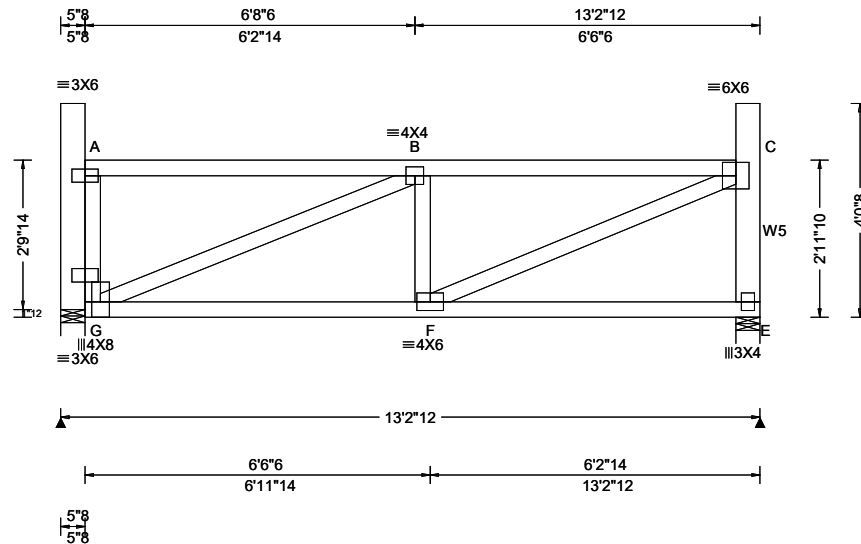
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34023 FROM: JRQ	MONO Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T08	Cust: R 9316 JRef: 1X1293160008 T8 DrwNo: 117.22.1505.56650 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.97 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.036 B 999 360 VERT(CL): 0.062 B 999 240 HORZ(LL): 0.007 E - - HORZ(TL): 0.012 E - - Creep Factor: 2.0 Max TC CSI: 0.709 Max BC CSI: 0.759 Max Web CSI: 0.928 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL G 759 /- /- /332 /48 /78 E 741 /- /- /318 /45 /- Non-Gravity Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 98 - 1104

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11964.55" if used)

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

G - F 1105 - 106

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

A - G 592 -22 F - C 1104 -99
G - A 48 -760 C - E 60 -612
G - B 94 -1171



04/27/2022

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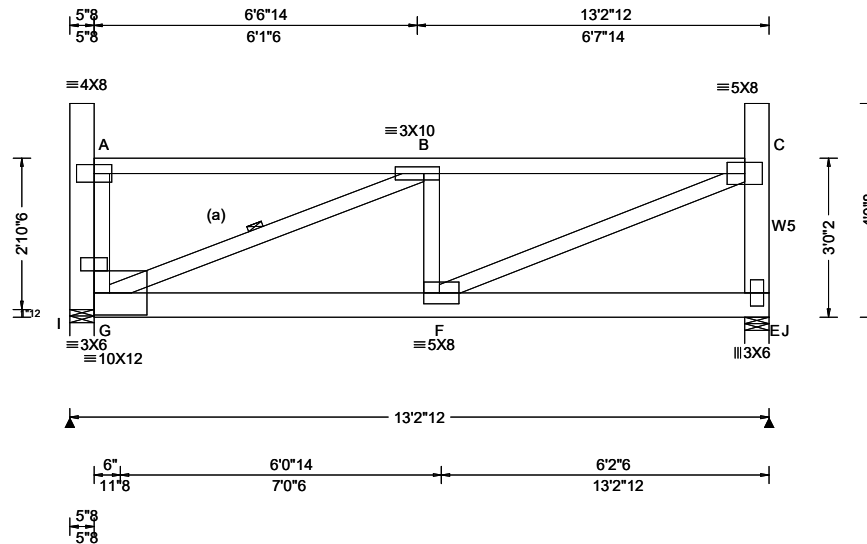
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34117 FROM: JRQ	MONO Qty: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T09	Cust: R 9316 JRef: 1X1293160008 T4 DrwNo: 117.22.1506.05530 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.059 F 999 360 VERT(CL): 0.102 F 999 240 HORZ(LL): 0.008 A - - HORZ(TL): 0.014 A - - Creep Factor: 2.0 Max TC CSI: 0.783 Max BC CSI: 0.623 Max Web CSI: 0.493 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 1372 -/- /- /145 -/ J 1246 -/- /- /135 -/ Non-Gravity Wind reactions based on MWFRS I Brg Wid = 5.5 Min Req = 1.5 (Support) J Brg Wid = 5.5 Min Req = 2.0 (Truss) Bearings I & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 212 - 1977

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 12.31
BC: From 50 plf at 0.00 to 50 plf at 12.77
BC: 186 lb Conc. Load at 0.71, 2.71, 4.71, 6.71, 8.71
BC: 188 lb Conc. Load at 10.71

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11970.55" if used)

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

G - F 1938 - 204

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

A - G 1202 - 137 F - C 2011 - 216
G - A 145 - 1373 C - E 94 - 973
G - B 216 - 2045



04/27/2022

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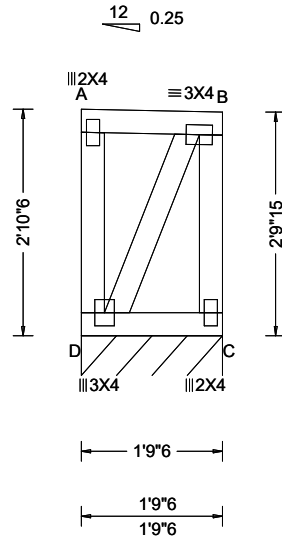
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34086 FROM: JRQ	MONO Ply: 1 Qty: 1	Job Number: JB-220686 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE24	Cust: R 9316 JRef: 1X1293160008 T24 DrwNo: 117.22.1516.24317 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.99 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.048 Max BC CSI: 0.034 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /28 Wind reactions based on MWFRS C Brg Wid = 21.4 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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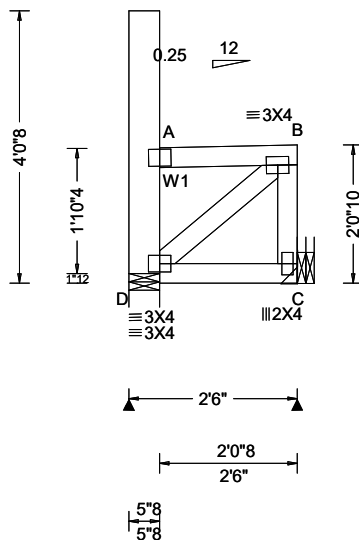
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	D 113 /- /- /89 /75 /61
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	C 158 /- /- /132 /55 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.03 ft	Building Code:	Creep Factor: 2.0	D Brg Wid = 5.5 Min Req = 1.5 (Support)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.102	C Brg Wid = - Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.066	Bearing D is a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.106	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	2.03	30.67
					2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load. W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Truss must be installed as shown with top chord up.



04/27/2022

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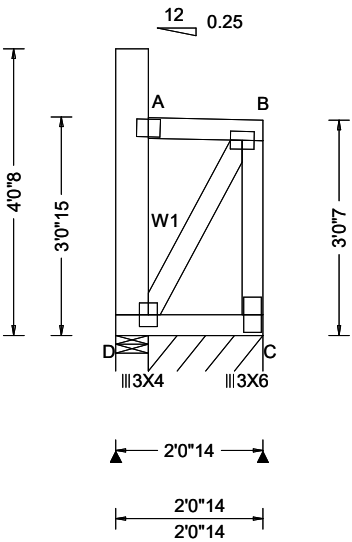
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SEQN: 34087 FROM: JRQ	GABL Ply: 1 Qty: 1	Job Number: JB-220686 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE25	Cust: R 9316 JRef: 1X1293160008 T14 DrwNo: 117.22.1516.27373 / NDW 04/27/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): -0.001 D 999 360	D	108	/-	/-	/124	/102	/89
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): -0.001 D 999 240	C*	67	/-	/-	/92	/54	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.003 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.003 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 22.05 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = 19.4 Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Bearings D & D are a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.048	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.059							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: not in 14.50 ft	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/27/2022

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Gable Stud Reinforcement Detail

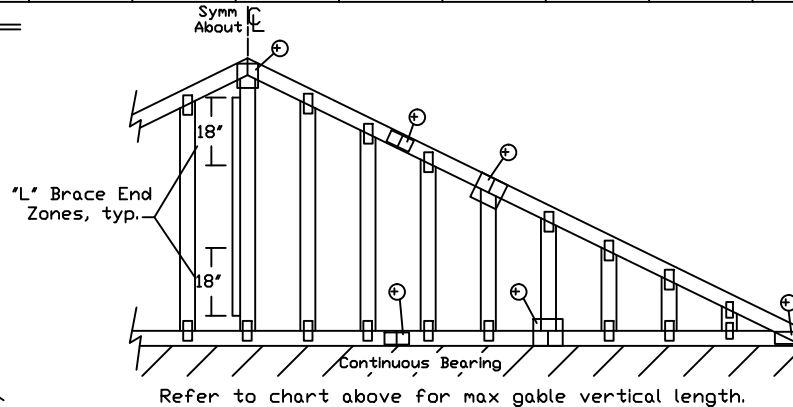
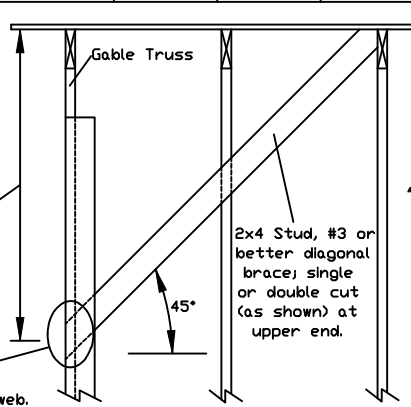
ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"	
		#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
		Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
		Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"	
		SP DFL	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"		
	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	
		#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"	
		Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"	
Standard		5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"		
SP DFL		#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	
Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"			
12" O.C.	SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"		
		#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
		Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
		Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
	SP DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
		#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
		Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"			

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Bracing Group Species and Grades:											
Group A:											
Spruce-Pine-Fir						Hem-Fir					
#1 / #2		Standard				#2		Stud			
#3		Stud				#3		Standard			
Douglas Fir-Larch						Southern Pine***					
#3						#3					
Stud						Stud					
Standard						Standard					
Group B:											
Hem-Fir											
#1 & Btr						#1 & Btr					
#1						#1					
Douglas Fir-Larch						Southern Pine***					
#1						#1					
#2						#2					
1x4 Braces shall be SRB (Stress-Rated Board). ***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.											

1x4 Braces shall be SRB (Stress-Rated Board).
 ***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:
 Wind Load deflection criterion is L/240.
 Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).
 Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.
 * For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
 ** For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.
 'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes			
Vertical Length	No Splice		
Less than 4' 0"	1X4 or 2X3		
Greater than 4' 0", but less than 11' 6"	2X4		
Greater than 11' 6"	3X4		

+ Refer to common truss design for peak, splice, and heel plates.
 Refer to the Building Designer for conditions not addressed by this detail.



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MAX. TOT. LD. 60 PSF
 MAX. SPACING 24.0"

REF ASCE7-16-GAB11530
 DATE 01/26/2018
 DRWG A11530ENC160118

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail
for lumber, plates, and other information not shown
on this detail.

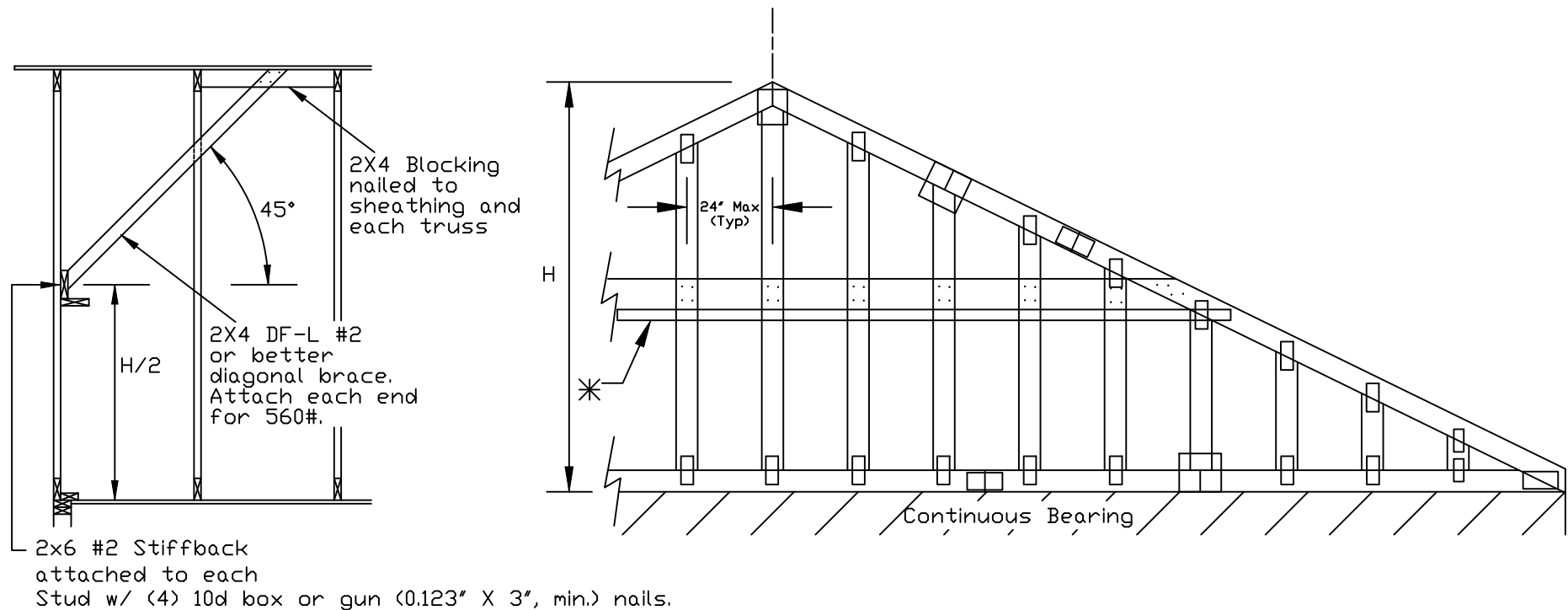
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback
to roof diaphragm every 6'0" (see detail below or
refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace
to roof diaphragm every 4'0" (see detail below or
refer to DRWG A12030ENC160118).

* Optional 2x L-reinforcement attached
to stiffback with 10d box or gun
(0.128" x 3", min.) nails @ 6" o.c.



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MAX. TOT. LD. 60 PSF

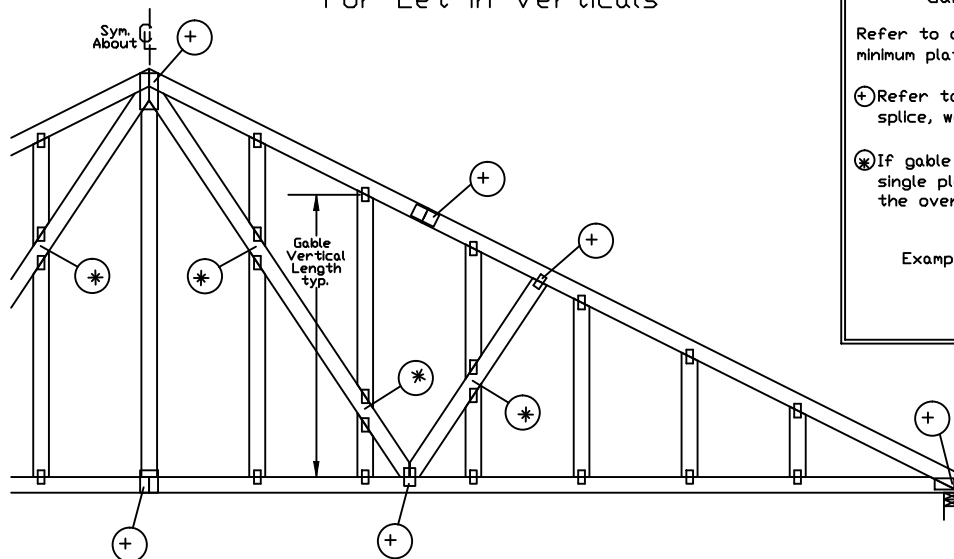
MAX. SPACING

REF GE WHALER

DATE 01/02/2018

DRWG GABRST160118

Gable Detail For Let-in Verticals



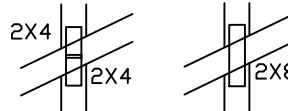
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

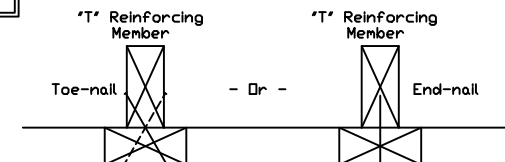
(+) Refer to Engineered truss design for peak, splice, web, and heel plates.

(X) If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



'T' Reinforcement Attachment Detail



To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate Alpine gable detail).

Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member.

Web Length Increase w/ 'T' Brace

'T' Reinf. Mbr. Size	'T' Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

Gable Vertical = 24' o.c. SP #3

'T' Reinforcing Member Size = 2x4

'T' Brace Increase (From Above) = 30% = 1.30

(1) 2x4 'L' Brace Length = 8' 7"

Maximum 'T' Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

10d Common (0.148"x3",min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x3",min) Toenails at 4' o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

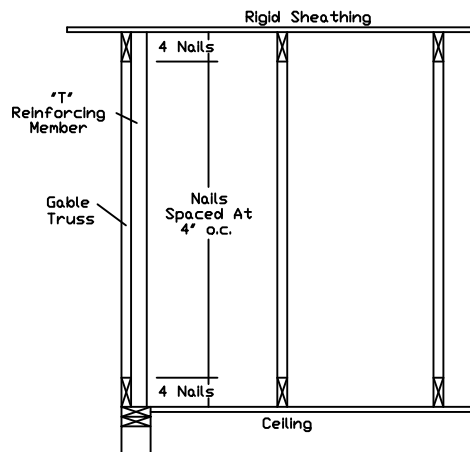
ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,
A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,
A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



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REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

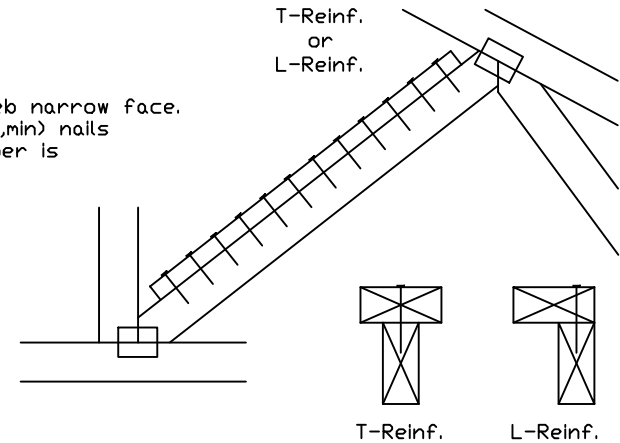
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

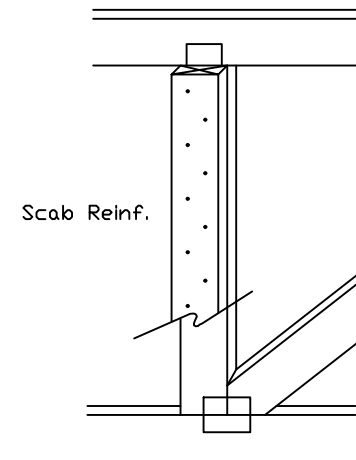
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014



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

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Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Floor Layout Shop Drawings	RETURNED NOT REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 6 Floor Layout

Total Truss Quantity = 225.

Total Plan Area with OHs = 5429 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	159	Simpson
=	THA422-2	5	Simpson

SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.

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

DATE: 05/10/2022 BY: CB

REVIEWED

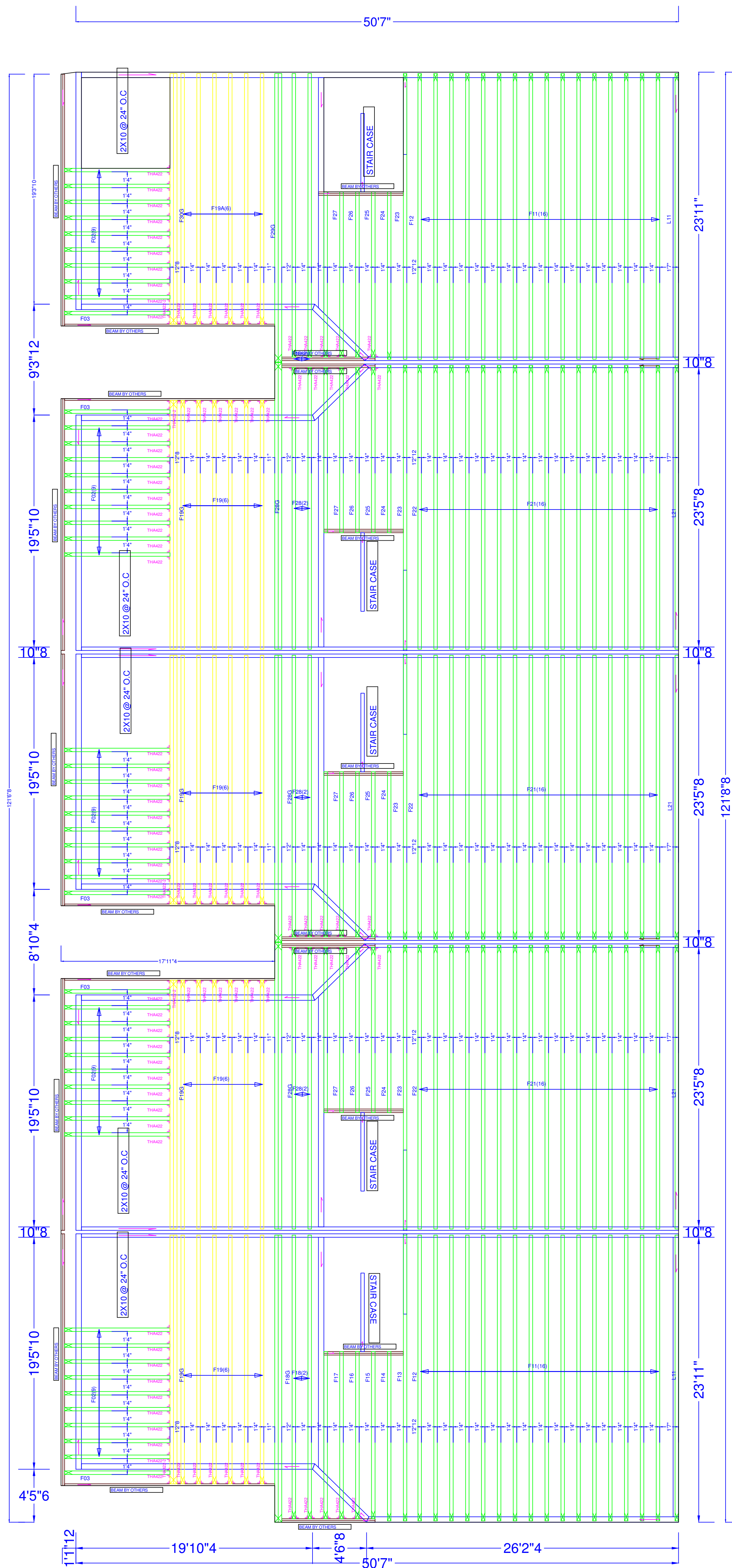
DATE RECIEVED:

REVIEWED AS NOTED ☐REVIEWED BY: [michaela.silva](#)

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



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com



DO NOT Erect Backwards/UpSide Down or Cut, Alter, Installed Trusses

Job Name:

McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220579F

Date: 3/17/2022

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address:

2100 NW Lowenstein Dr
Lee's Summit
MO



3363 S. Halstead Rd
Halstead, KS 67056
(316) 830-6108

NOTE: Yellow ID Tag Location Indicates
Left/Front/Bottom of Truss



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/28/2022

REVIEWED ☒ DATE REVIEWED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



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SHOP DRAWING REVIEW

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/10/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220579F
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00 JRef #: 1Xf393160009
Wind Standard: ASCE716 Wind Speed (mph): 0	Design Loading (psf): 75.00
Building Type:	

This package contains general notes pages, 27 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	118.22.1357.05696	F02	2	118.22.1357.06079	F03
3	118.22.1357.06405	F11	4	118.22.1357.06724	F12
5	118.22.1357.06142	F13	6	118.22.1357.06020	F14
7	118.22.1357.06059	F15	8	118.22.1357.06406	F16
9	118.22.1357.06401	F17	10	118.22.1357.05817	F18
11	118.22.1357.06427	F18G	12	118.22.1357.06588	F19
13	118.22.1357.06699	F19A	14	118.22.1357.06683	F19G
15	118.22.1357.05599	F21	16	118.22.1357.06473	F22
17	118.22.1357.06074	F23	18	118.22.1357.05750	F24
19	118.22.1357.06250	F25	20	118.22.1357.05851	F26
21	118.22.1357.05749	F27	22	118.22.1357.05850	F28
23	118.22.1357.05685	F28G	24	118.22.1357.06839	F29G
25	118.22.1357.06763	F30G	26	118.22.1357.06151	L11
27	118.22.1357.06275	L21	28	CNSY42PL0118	
29	DEFLCAMB1014		30	LSCSYX2A1014	
31	STRBRIBR1014				

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

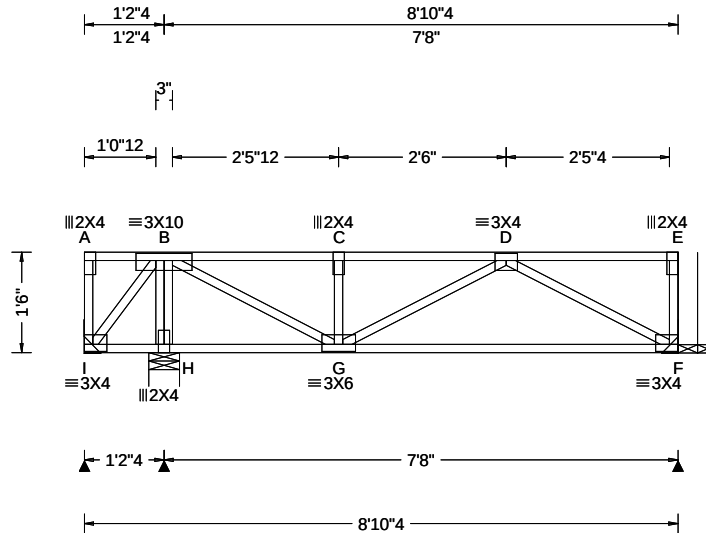
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

SEQN: 96773 / FROM:	SY42 Qty: 45	Job Number: JB-220579F Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F02	Cust: R 9316 JRef: 1Xf393160009 T6 DrwNo: 118.22.1357.05696 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.018 C 999 480	Non-Gravity
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.034 C 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.002 F - -	
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.004 F - -	
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.299	
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.301	
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.162	
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		
	Loc. from endwall: NA	Plate Type(s):		
	I: NA GCpi: NA			
	Wind Duration: NA	WAVE	VIEW Ver: 21.02.00.1005.17	

Truss must be installed as shown with top chord up.

B - C	0 - 485	C - D	0 - 485
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Chords Tens.Comp.

G - F	473	0
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Web	Tens.Comp.	Web	Tens. Comp.
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
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19	19	19	19
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92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

B - H	0	-499	D - F	0	-537
B - G	576	0			



04/28/2022

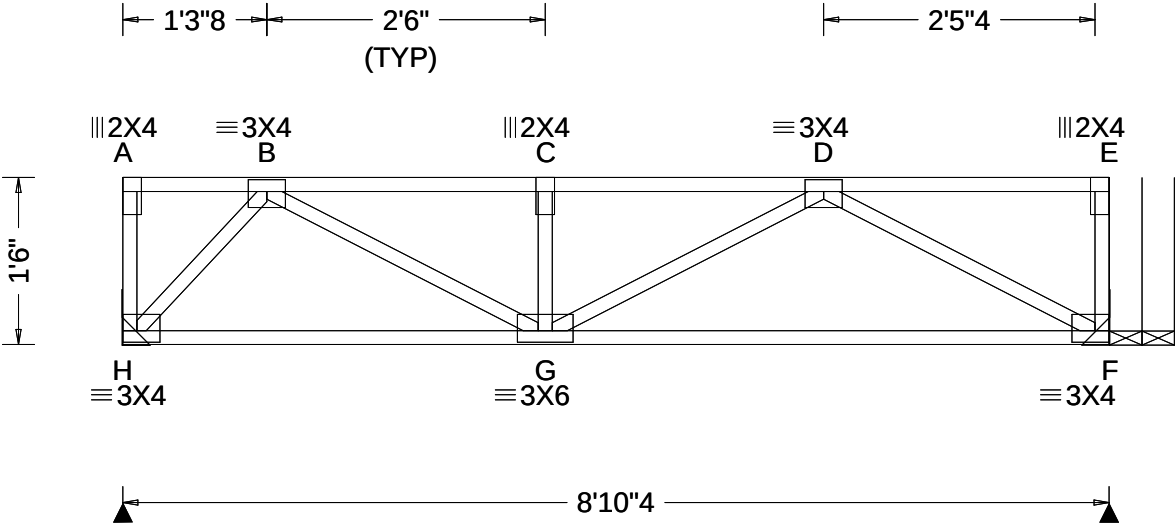
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBCA: sbaccomponents.com; ICC: iccsafe.org; AWC: awc.org



514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96775 / FROM:	SY42	Ply: 1 Qty: 5	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F03	Cust: R 9316 JRef:1Xf393160009 T7 / DrwNo: 118.22.1357.06079 / NDW 04/28/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.024 C 999 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.046 C 999 360		H	443	/-	/-	/-	/-	/-	
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): 0.004 B - -		F	443	/-	/-	/-	/-	/-	
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code:		HORZ(TL): 0.008 B - -		H Brg Wid = -		Min Req = -					
NCBCLL: 0.00		Mean Height: NA ft				Creep Factor: 2.0		F Brg Wid = -		Min Req = -					
Soffit: 0.00		TCDL: NA psf		IBC 2018		Max TC CSI: 0.298		Members not listed have forces less than 375#							
Load Duration: 1.00		BCDL: NA psf		TPI Std: 2014		Max BC CSI: 0.324		Maximum Top Chord Forces Per Ply (lbs)							
Spacing: 16.0 "		MWFRS Parallel Dist: NA		Rep Fac: Yes		Max Web CSI: 0.141		Chords		Tens.Comp.		Chords		Tens. Comp.	
		C&C Dist a: NA ft		FT/RT:12(0)/10(0)				B - C		0 -747		C - D		0 -747	
		Loc. from endwall: NA		Plate Type(s):											
		I: NA GCpi: NA		WAVE		VIEW Ver: 21.02.00.1005.17		Maximum Bot Chord Forces Per Ply (lbs)							
		Wind Duration: NA													

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

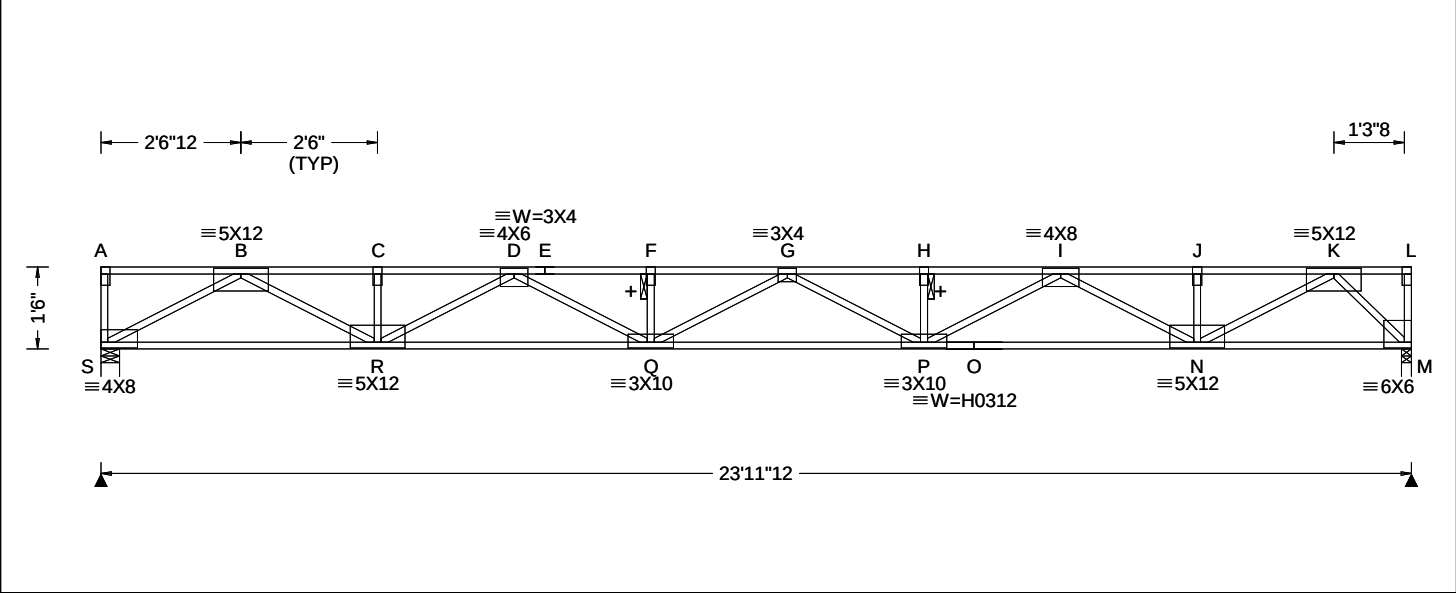


04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 96777 / FROM:	SY42 Qty: 32	Ply: 1 Ply: 32	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F11	Cust: R 9316 JRef:1Xf393160009 T28 / DrwNo: 118.22.1357.06405 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.414 G 695 480 VERT(CL): 0.775 G 371 360 HORZ(LL): 0.057 M - - HORZ(TL): 0.107 M - - Creep Factor: 2.0 Max TC CSI: 0.398 Max BC CSI: 0.672 Max Web CSI: 0.551 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1199 /- /- /- /- /- M 1199 /- /- /- /- /- S Brg Wid = 4.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3522 G - H 0 - 4917 C - D 0 - 3522 H - I 0 - 4917 D - E 0 - 5123 I - J 0 - 2895 E - F 0 - 5123 J - K 0 - 2895 F - G 0 - 5123

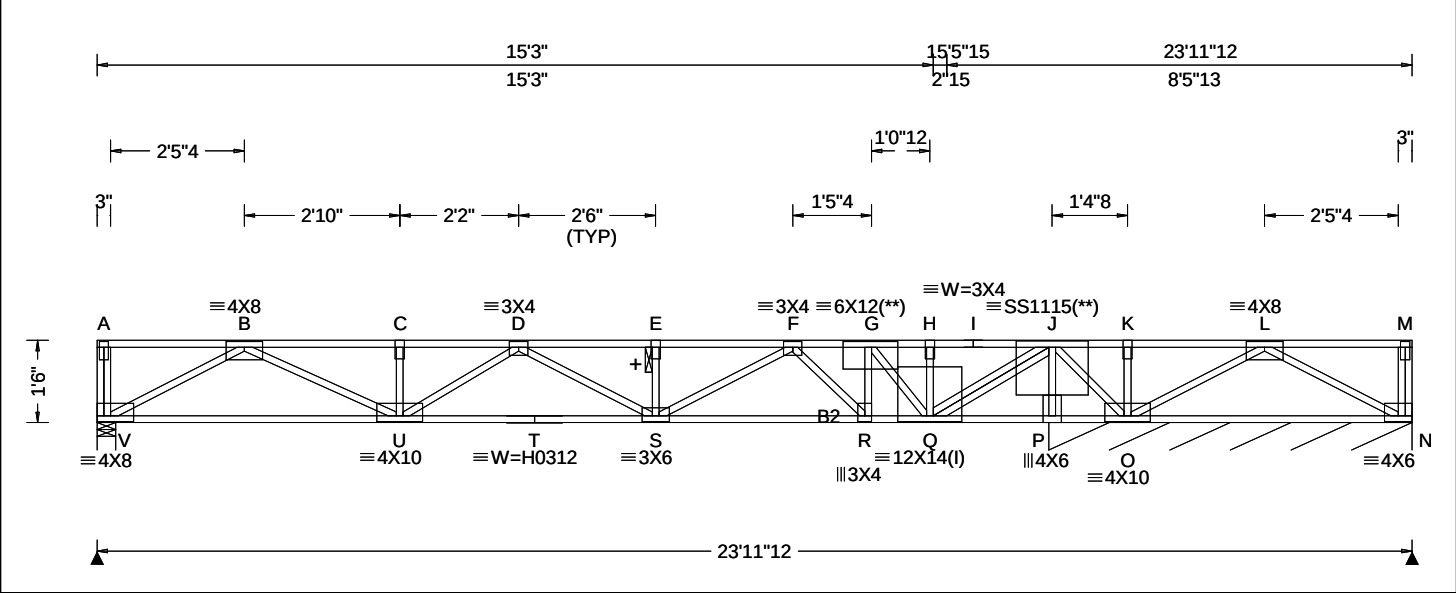
Lumber Top chord: 4x2 DF-L 2400f-2.0E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;	Plating Notes All plates are 2X4 except as noted.	Deflection Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. S - R 2010 0 P - O 4106 0 R - Q 4523 0 O - N 4106 0 Q - P 5219 0 N - M 1183 0	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - B 0 - 2281 P - I 925 0 B - R 1725 0 I - N 0 - 1382 R - D 0 - 1143 N - K 1954 0 D - Q 684 0 K - M 0 - 1648
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04/28/2022

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SEQN: 96779 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F12	Cust: R 9316 JRef:1Xf393160009 T1 / DrwNo: 118.22.1357.06724 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.201 E 999 480 VERT(CL): 0.377 E 545 360 HORZ(LL): 0.029 B - - HORZ(TL): 0.054 B - - Creep Factor: 2.0 Max TC CSI: 0.946 Max BC CSI: 0.960 Max Web CSI: 0.568 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL V 961 -/- /- /- /- /- N* 443 -/- /- /- /- /- N -/-304 V Brg Wid = 4.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2615 G - H 0 -818 C - D 0 -2615 H - I 0 -818 D - E 0 -3202 I - J 0 -818 E - F 0 -3202 J - K 2031 0 F - G 0 -2426 K - L 2031 0

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;
Special Loads
-----(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes
All plates are 2X4 except as noted.
(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

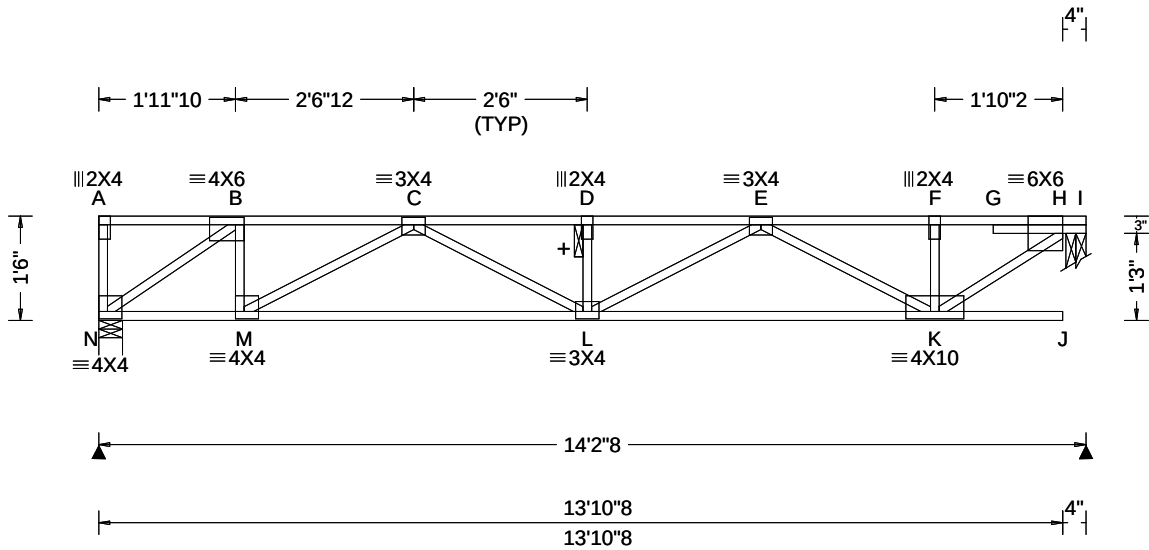


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Building 6

SEQN: 96781 / FROM:	SY42 Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F13	Cust: R 9316 JRef:1Xf393160009 T23 / DrwNo: 118.22.1357.06142 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.096 D 999 480 VERT(CL): 0.179 D 942 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.620 Max BC CSI: 0.537 Max Web CSI: 0.329 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 702 -/- /- /- /- /- H 714 -/- /- /- /- /- N Brg Wid = 4.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -943 E - F 0 -943 C - D 0 -1836 F - H 0 -942 D - E 0 -1836

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	905 0	L - K	1574 0
M - L	1582 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1104	E - K	0 -721
B - M	416 0	K - H	1166 0
M - C	0 -734		



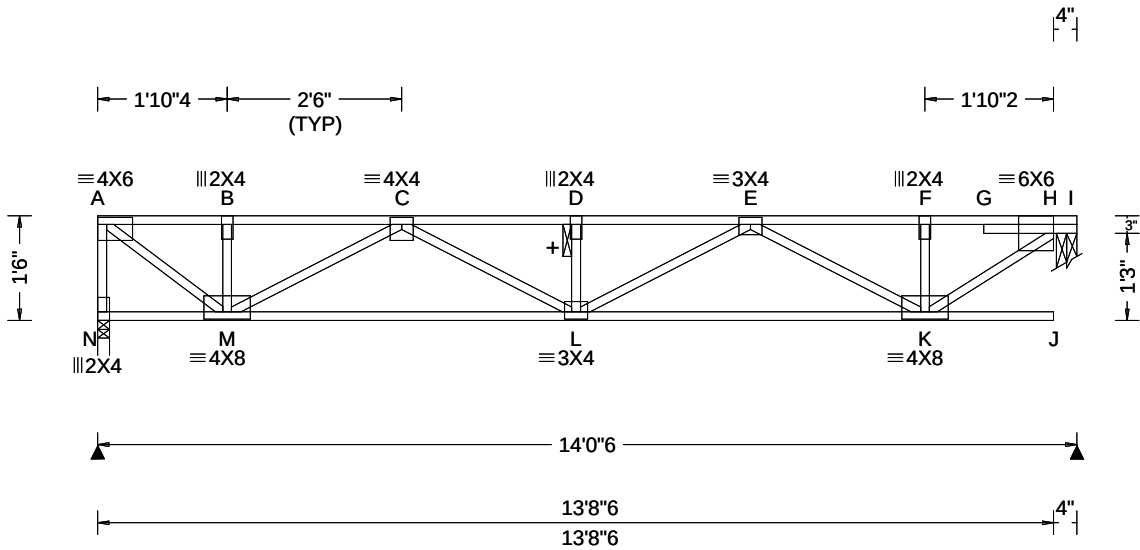
04/28/2022

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Building 6

SEQN: 96783 / FROM:	SY42 Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F14	Cust: R 9316 JRef:1Xf393160009 T15 / DrwNo: 118.22.1357.06020 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.093 D 999 480 VERT(CL): 0.174 D 955 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.612 Max BC CSI: 0.524 Max Web CSI: 0.324 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 693 /- /- /- /- /- H 706 /- /- /- /- /- N Brg Wid = 2.0 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -849 D - E 0 -1791 B - C 0 -849 E - F 0 -929 C - D 0 -1791 F - H 0 -929

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1520 0	L - K	1546 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -690	E - K	0 -703
A - M	1057 0	K - H	1150 0
M - C	0 -766		



04/28/2022

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**

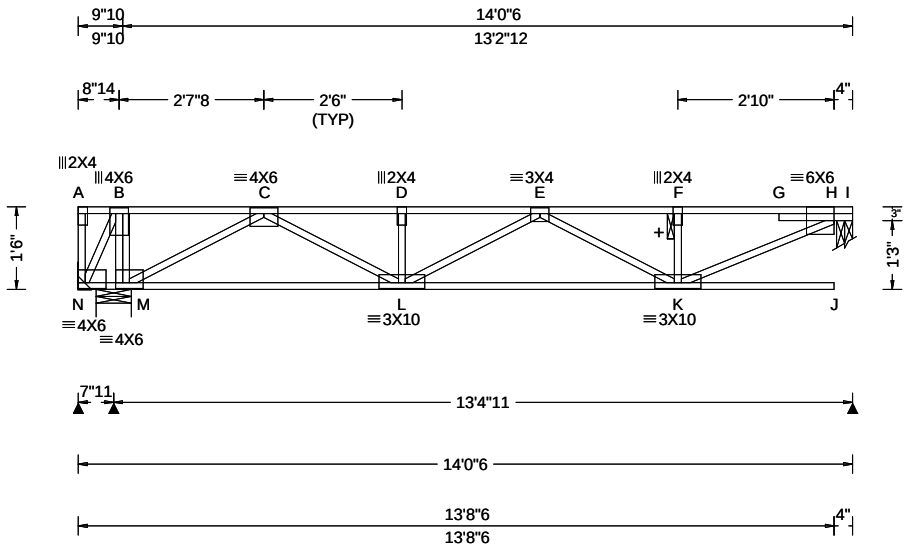
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SEQN: 96787 / FROM:	SY42 Ply: 1 Qty: 1	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F15	Cust: R 9316 JRef:1Xf393160009 T26 / DrwNo: 118.22.1357.06059 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.200 J 780 480 VERT(CL): 0.320 J 487 360 HORZ(LL): 0.011 C - - HORZ(TL): 0.020 C - - Creep Factor: 2.0 Max TC CSI: 0.961 Max BC CSI: 0.588 Max Web CSI: 0.339 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-708 /- /- /- /- N 1480 /- /- /- /- /- H 618 /- /- /- /- /- N Brg Wid = - Min Req = - N Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 SPF #1/#2; Bot chord: 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2; Deflection Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCMB1014 for camber recommendations. Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less. Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 600 0 L - K 1318 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 685 0 C - L 693 0 B - M 0 -840 K - H 1201 0 M - C 0 -1141
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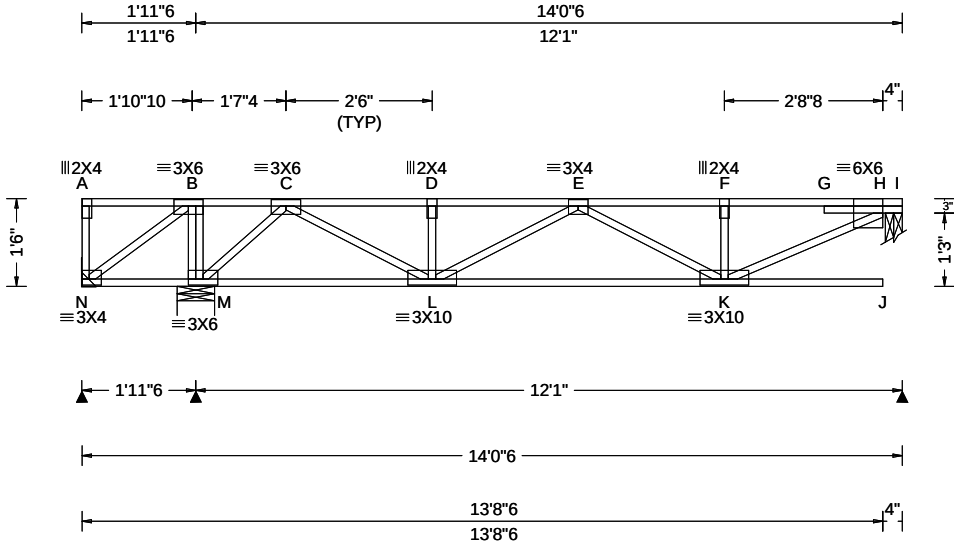


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Building 6

SEQN: 96789 / FROM:	SY42	Ply: 1 Qty: 1	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F16	Cust: R 9316 JRef:1Xf393160009 T33 / DrwNo: 118.22.1357.06406 / NDW 04/28/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/def L/#			Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.159 J 897 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.249 J 570 360			N	-	/-323	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): 0.007 C - -			M	1131	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code:			HORZ(TL): 0.013 C - -			I	547	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft					Creep Factor: 2.0			N Brg Wid = - Min Req = -						
Soffit: 0.00		TCDL: NA psf		IBC 2018			Max TC CSI: 0.823			M	Brg Wid = 7.7 Min Req = 1.5 (Truss)					
Load Duration: 1.00		BCDL: NA psf		TPI Std: 2014			Max BC CSI: 0.493			I	Brg Wid = 3.5 Min Req = 1.5 (Truss)					
Spacing: 16.0 "		MWFRS Parallel Dist: NA		Rep Fac: Yes			Max Web CSI: 0.283			Bearings M & H are a rigid surface.						
		C&C Dist a: NA ft		FT/RT:12(0)/10(0)						Members not listed have forces less than 375#						
		Loc. from endwall: NA		Plate Type(s):						Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA		WAVE			VIEW Ver: 21.02.00.1005.17			Chords Tens.Comp. Chords Tens. Comp.						
		Wind Duration: NA														

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

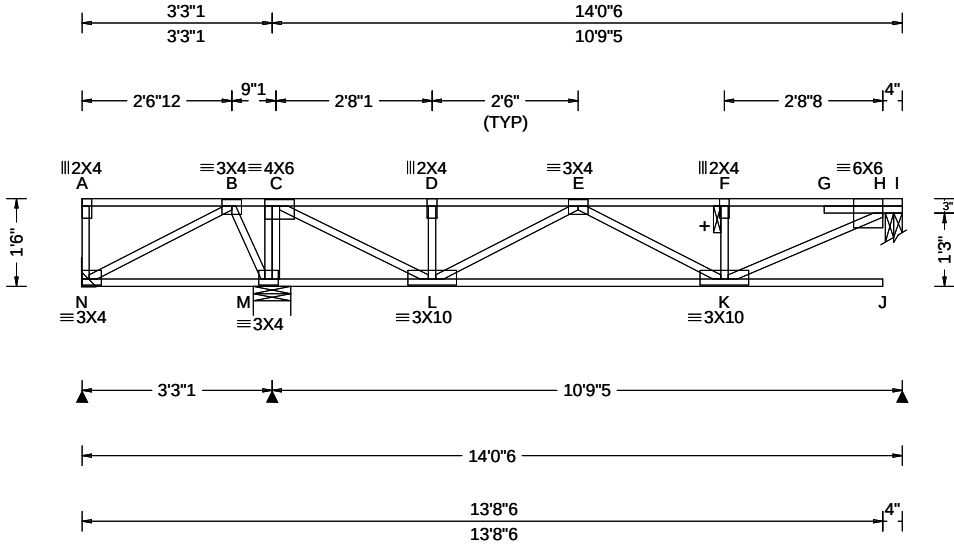
Truss must be installed as shown with top chord up.



04/28/2022

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SEQN: 96791 / FROM:	SY42 Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F17	Cust: R 9316 JRef:1Xf393160009 T20 / DrwNo: 118.22.1357.06401 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 870 480 VERT(CL): 0.233 J 550 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.749 Max BC CSI: 0.437 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 57 /-122 /- /- /- /- M 959 /- /- /- /- /- I 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 423 0 E - F 0 - 784 C - D 0 -500 F - H 0 - 785 D - E 0 -500

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp.
L - K 818 0

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
M - C 0 -627 K - H 874 0
C - L 963 0



04/28/2022

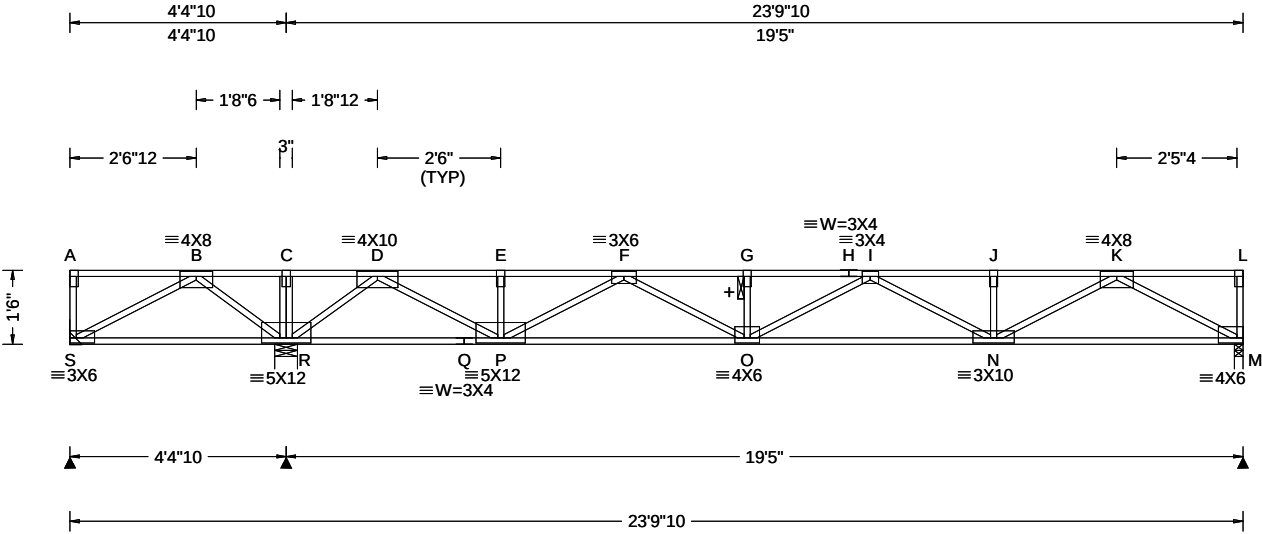
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Suite 242
Earth City, Missouri 63045

SEQN: 96793 / FROM:	SY42 Ply: 1 Qty: 4	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F18	Cust: R 9316 JRef:1Xf393160009 T16 / DrwNo: 118.22.1357.05817 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 G 999 480 VERT(CL): 0.371 G 628 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.796 Max Web CSI: 0.466 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-458 /- /- /- /- R 1886 /- /- /- /- /- M 844 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Negative reaction(s) of -458# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
S - R	0 -955	P - O	1987	0
R - Q	0 -427	O - N	2580	0
Q - P	0 -427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens. Comp.	
S - B	1084	F - O	631	0
B - R	0 -1117	I - N	0	-411
R - D	0 -1648	N - K	991	0
D - P	1653	K - M	0	-1535
P - F	0 -1085			

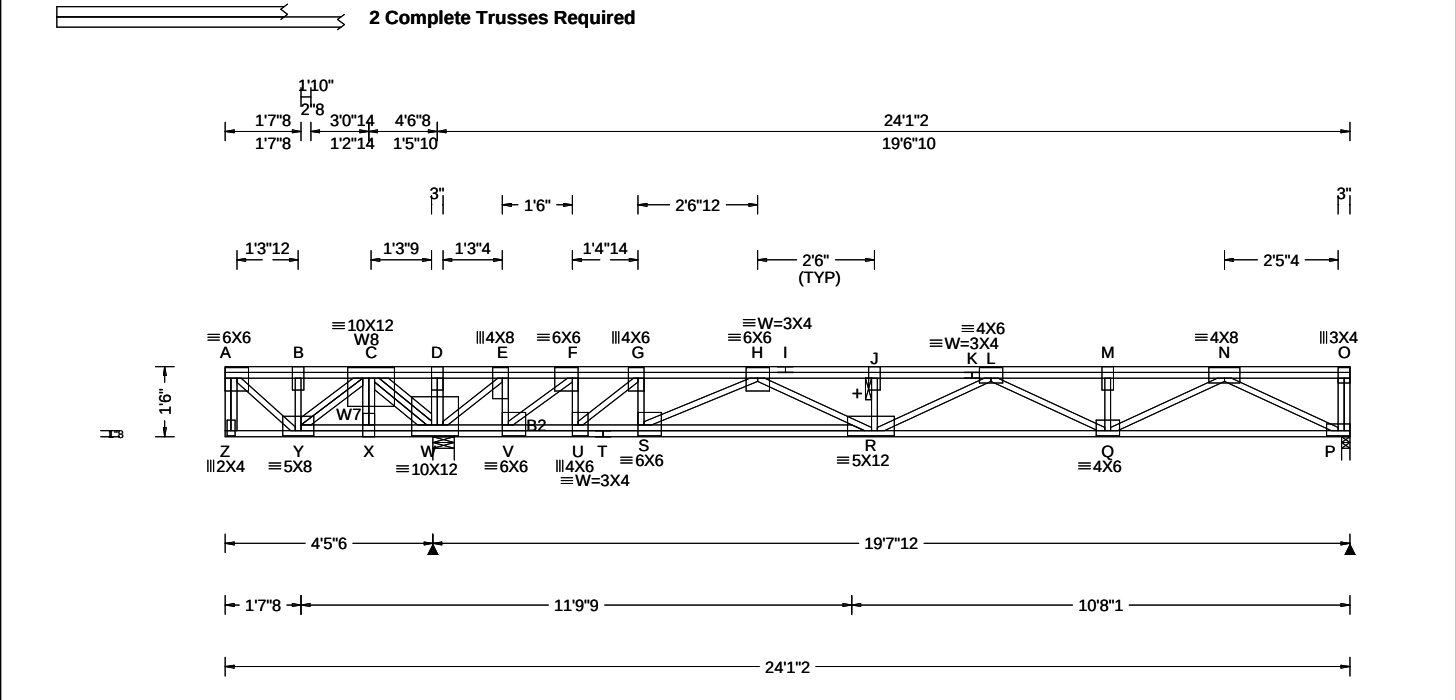


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SEQN: 96795 / FROM:	SY42 Ply: 2 Qty: 1	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F18G	Cust: R 9316 JRef:1Xf393160009 T17 / DrwNo: 118.22.1357.06427 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.124 Z 435 480 VERT(CL): 0.263 Z 408 360 HORZ(LL): -0.027 A - - HORZ(TL): 0.058 A - - Creep Factor: 2.0 Max TC CSI: 0.885 Max BC CSI: 0.247 Max Web CSI: 0.249 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				W	8317	-	-	-	-	-
				P	962	-165	-	-	-	-
				W Brg Wid = 5.5 Min Req = 1.5 (Truss)						
				P Brg Wid = 2.1 Min Req = 1.5 (Truss)						
				Bearings W & P are a rigid surface.						
				Members not listed have forces less than 375#						
				Maximum Top Chord Forces Per Ply (lbs)						
				Chords	Tens.Comp.	Chords	Tens.	Comp.		
				A - B	420	0	H - I	1554	-1705	
				B - C	420	0	I - J	1554	-1705	
				C - D	4753	0	J - K	1551	-1711	
				D - E	4749	0	K - L	1551	-1711	
				E - F	4209	-367	L - M	534	-1347	
				F - G	3615	-827	M - N	534	-1347	
				G - H	3087	-1193				

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads
----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes
All plates are 3X6 except as noted.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Y - X	0 - 1228	T - S	1169 - 3130
X - W	0 - 1219	S - R	1563 - 2265
W - V	329 - 4254	R - Q	1631 - 993
V - U	793 - 3663	Q - P	784 - 222
U - T	1169 - 3130		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - Y	0 - 548	G - S	539 0
Y - C	1053 0	S - H	0 - 1139
C - W	0 - 4787	H - R	869 0
W - E	0 - 999	R - L	89 - 626
E - V	636 0	L - Q	518 - 321
V - F	0 - 1035	Q - N	636 - 353
F - U	652 0	N - P	250 - 860
U - G	0 - 919		

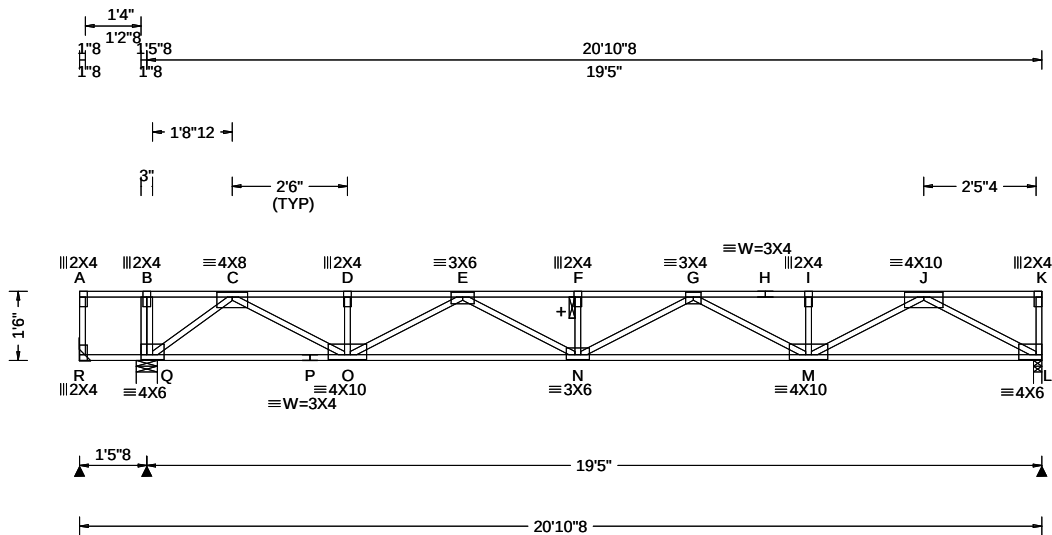
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Building 6

SEQN: 9787 / FROM:	SY42	Ply: 1 Qty: 24	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F19	Cust: R 9316 JRef:1Xf393160009 T34 / DrwNo: 118.22.1357.06588 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.246 F 943 480 VERT(CL): 0.462 F 502 360 HORZ(LL): 0.038 L - - HORZ(TL): 0.072 L - - Creep Factor: 2.0 Max TC CSI: 0.485 Max BC CSI: 0.960 Max Web CSI: 0.397 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 27 /-42 /- /- /- /- Q 1134 /- /- /- /- /- L 962 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens.	Comp.	
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.	Webs	Tens.	Comp.	
Q - C	0	- 1383	G - M	0	- 654
C - O	1407	0	M - J	1233	0
O - E	0	- 839	J - L	0	- 1782
E - N	387	0			



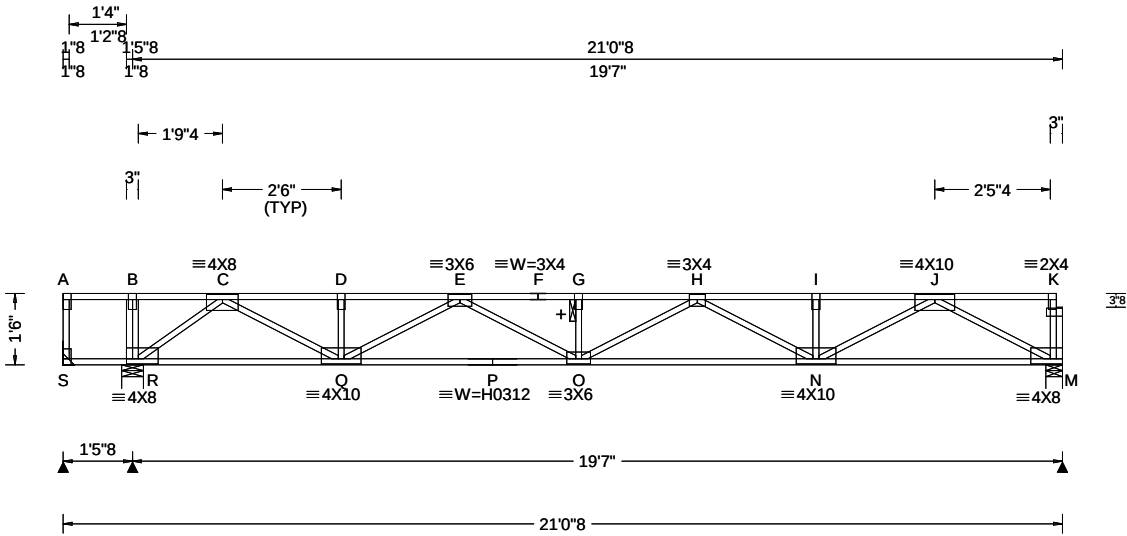
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Building 6

SEQN: 9789 / FROM:	SY42 Qty: 6	Ply: 1 Qty: 6	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F19A	Cust: R 9316 JRef:1Xf393160009 T21 / DrwNo: 118.22.1357.06699 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.245 G 948 480 VERT(CL): 0.459 G 505 360 HORZ(LL): 0.038 M - - HORZ(TL): 0.072 M - - Creep Factor: 2.0 Max TC CSI: 0.484 Max BC CSI: 0.955 Max Web CSI: 0.394 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 27 /-42 /- /- /- /- R 1133 /- /- /- /- /- M 979 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 4.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.24" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
R - Q	1110	0	0
Q - P	3058	0	1535
P - O	3058	0	0

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
R - C	0	1398	0
C - Q	1397	0	1245
Q - E	0	829	0
E - O	376	0	1753

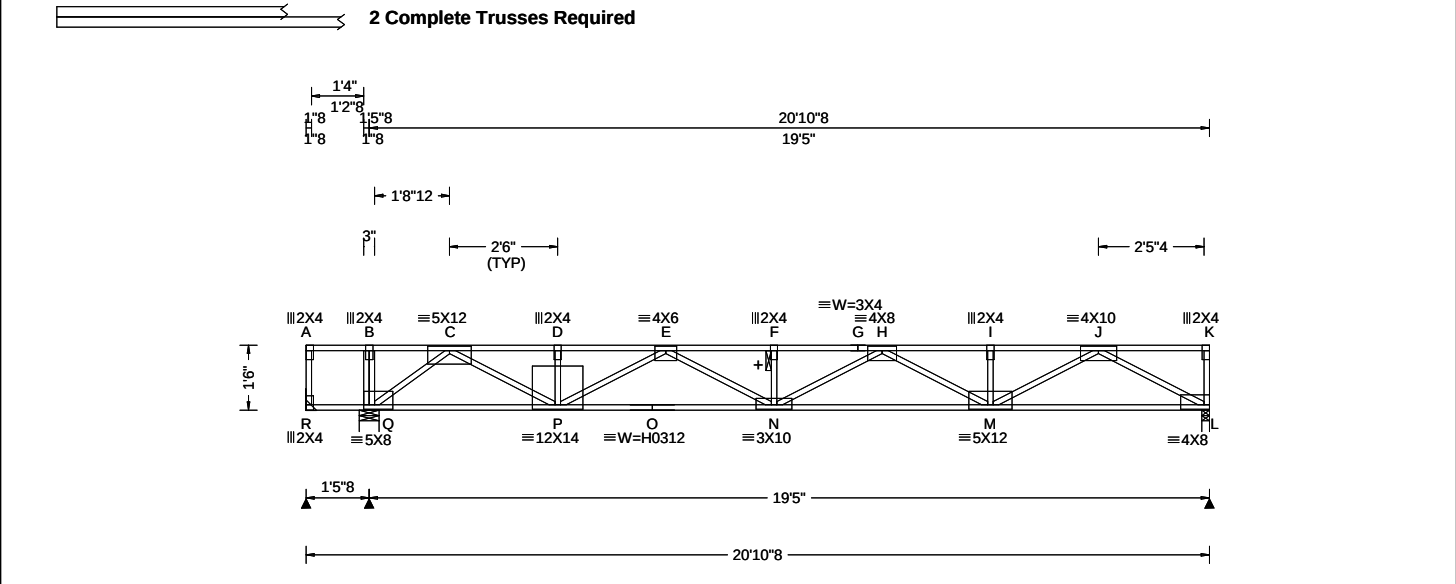


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SEQN: 9791 / FROM:	SY42 Qty: 4	Ply: 2 Qty: 4	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F19G	Cust: R 9316 JRef:1Xf393160009 T8 / DrwNo: 118.22.1357.06683 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.290 F 799 480 VERT(CL): 0.545 F 426 360 HORZ(LL): 0.041 C - - HORZ(TL): 0.076 C - - Creep Factor: 2.0 Max TC CSI: 0.583 Max BC CSI: 0.585 Max Web CSI: 0.629 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 24 /-58 /- /- /- /- Q 3942 /- /- /- /- /- L 1997 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 DF-L 2400f-2.0E; Bot chord: 4x2 DF-L 2400f-2.0E; Webs: 4x2 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. Q - P 1835 0 N - M 4478 0 P - O 4877 0 M - L 1748 0 O - N 4877 0
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Special Loads ----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00) TC: From 87 plf at 0.00 to 87 plf at 20.88 BC: From 13 plf at 0.00 to 13 plf at 20.88 TC: 443 lb Conc. Load at 0.94 TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. B - Q 0 -465 F - N 0 -473 Q - C 0 -2340 N - H 753 0 C - P 2229 0 H - M 0 -1437 D - P 0 -467 M - J 1679 0 P - E 0 -1242 J - L 0 -1984
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Deflection Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCMB1014 for camber recommendations.	
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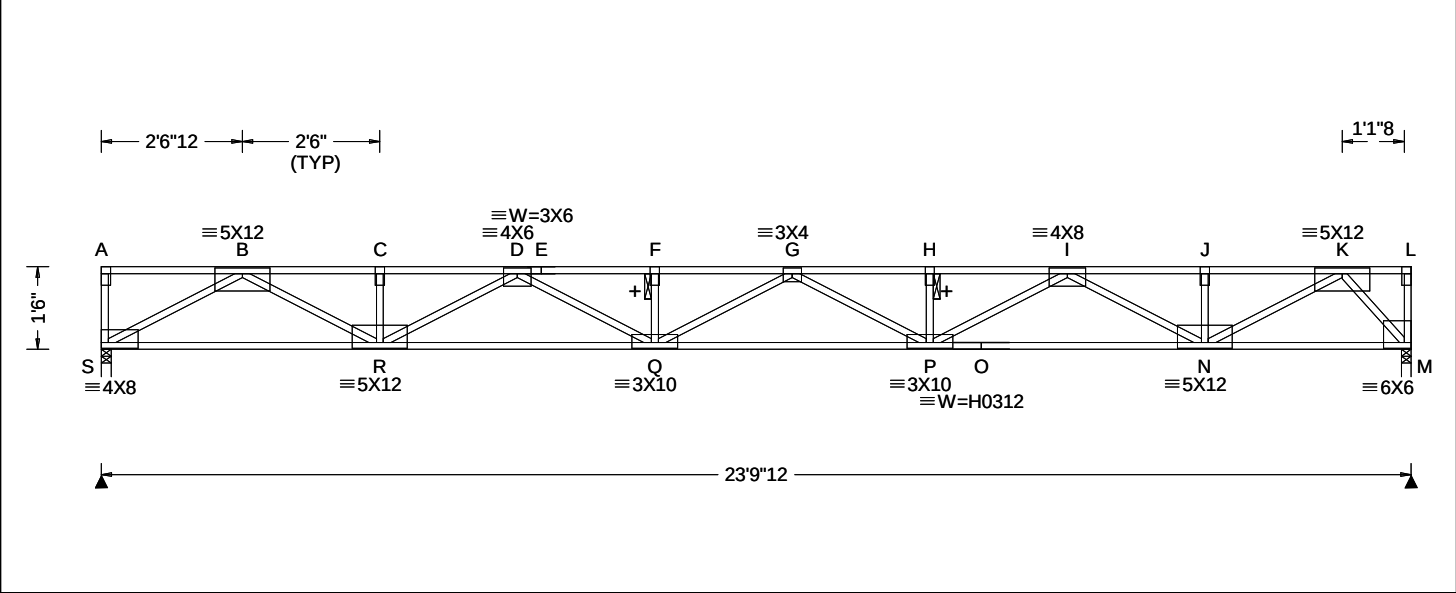
Additional Notes See DWG CNSY42PL0118 for connection details of 2 ply trusses. + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	
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04/28/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	 514 Earth City Expressway Suite 242 Earth City, Missouri 63045
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SEQN: 96797 / FROM:	SY42 Qty: 48	Ply: 1 Qty: 48	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F21	Cust: R 9316 JRef:1Xf393160009 T19 / DrwNo: 118.22.1357.05599 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.419 G 682 480 VERT(CL): 0.785 G 364 360 HORZ(LL): 0.056 M - - HORZ(TL): 0.104 M - - Creep Factor: 2.0 Max TC CSI: 0.442 Max BC CSI: 0.664 Max Web CSI: 0.556 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1191 -/- -/- -/- -/- M 1191 -/- -/- -/- -/- S Brg Wid = 2.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3491 G - H 0 - 4826 C - D 0 - 3491 H - I 0 - 4826 D - E 0 - 5062 I - J 0 - 2773 E - F 0 - 5062 J - K 0 - 2773 F - G 0 - 5062

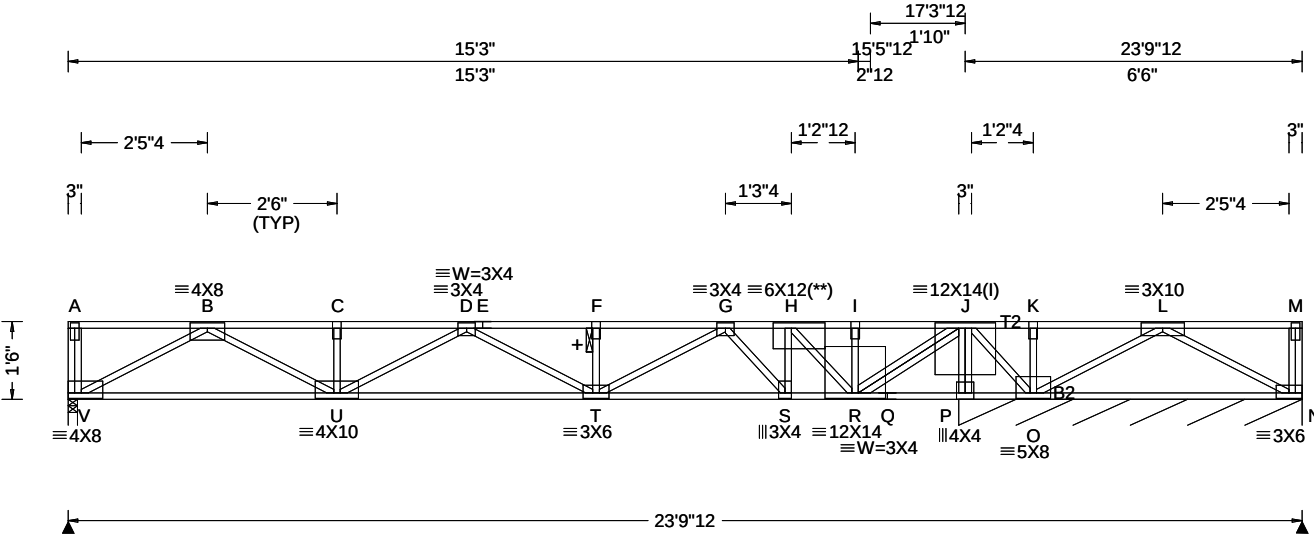
Lumber Top chord: 4x2 SPF 2100f-1.8E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;	Plating Notes All plates are 2X4 except as noted.	Deflection Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. S - R 1995 0 P - O 4000 0 R - Q 4479 0 O - N 4000 0 Q - P 5145 0 N - M 1047 0	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - B 0 - 2264 P - I 942 0 B - R 1707 0 I - N 0 - 1401 R - D 0 - 1127 N - K 1969 0 D - Q 665 0 K - M 0 - 1557
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SEQN: 96799 / FROM:	SY42	Ply: 1 Qty: 3	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F22	Cust: R 9316 JRef:1Xf393160009 T2 / DrwNo: 118.22.1357.06473 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.179 F 999 480 VERT(CL): 0.335 F 613 360 HORZ(LL): 0.026 B - - HORZ(TL): 0.049 B - - Creep Factor: 2.0 Max TC CSI: 0.504 Max BC CSI: 0.472 Max Web CSI: 0.548 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL V 961 -/- -/- -/- -/- N* 441 -/- -/- -/- -/- N -/-246 V Brg Wid = 2.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2565 G - H 0 -2521 C - D 0 -2565 H - I 0 -698 D - E 0 -3256 I - J 0 -698 E - F 0 -3256 J - K 1825 0 F - G 0 -3256 K - L 1825 0

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.81
BC: From 13 plf at 0.00 to 13 plf at 23.81
TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.
(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
V - U	1507 0	R - Q	0 -2561
U - T	3113 0	Q - P	0 -2561
T - S	2904 0	P - O	0 -2561
S - R	2477 0	O - N	0 -681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
V - B	0 -1714	H - R	0 -2670
B - U	1208 0	R - J	3882 0
U - D	0 -625	J - P	0 -3088
T - G	402 0	J - O	1065 0
G - S	0 -598	O - L	0 -1307
S - H	486 0	L - N	779 0

04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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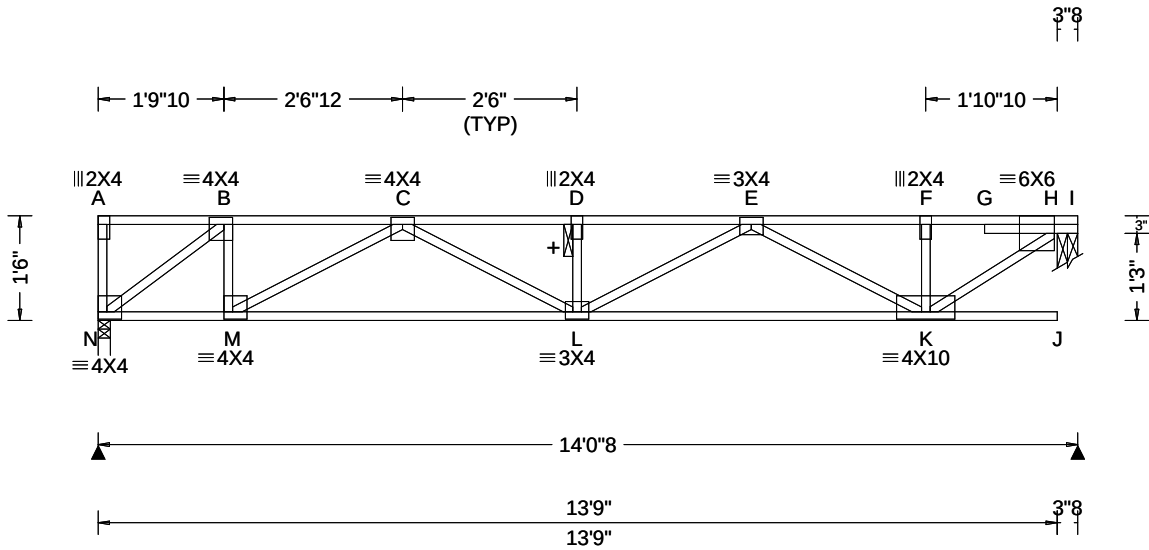
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

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Building 6

SEQN: 96801 / FROM:	SY42 Qty: 4	Ply: 1 Qty: 4	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F23	Cust: R 9316 JRef:1Xf393160009 T25 / DrwNo: 118.22.1357.06074 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.092 D 999 480 VERT(CL): 0.172 D 970 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.613 Max BC CSI: 0.522 Max Web CSI: 0.325 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 694 /- /- /- /- /- H 707 /- /- /- /- /- N Brg Wid = 2.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -869 E - F 0 -931 C - D 0 -1793 F - H 0 -930 D - E 0 -1793

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	831	L - K	1548
M - L	1525		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1045	E - K	0 -704
B - M	425	K - H	1152
M - C	0 -752		0



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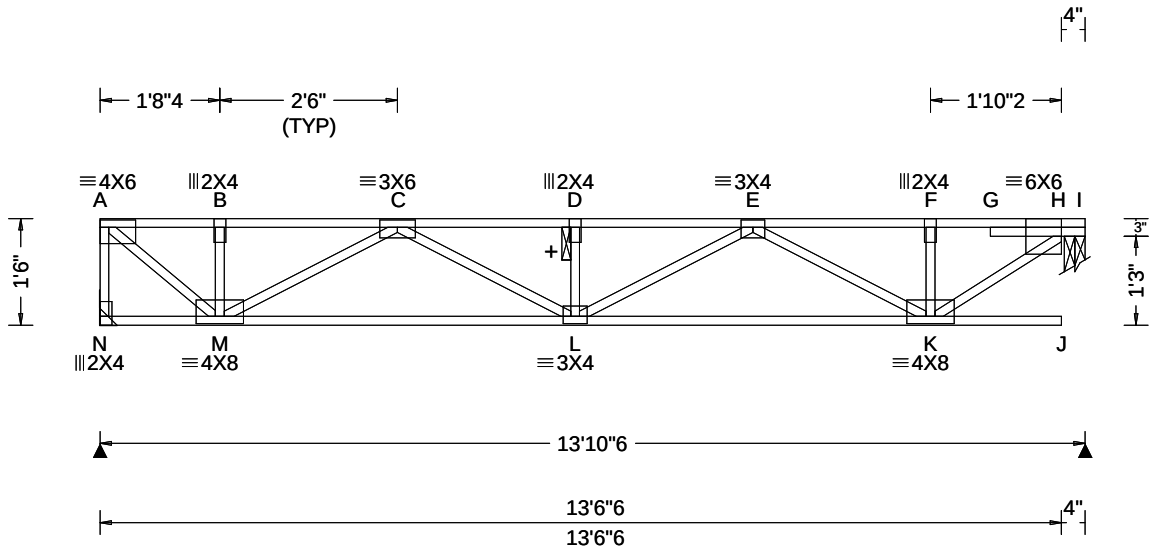
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AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96803 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F24	Cust: R 9316 JRef:1Xf393160009 T3 / DrwNo: 118.22.1357.05750 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.090 D 999 480 VERT(CL): 0.167 D 982 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.604 Max BC CSI: 0.513 Max Web CSI: 0.320 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 685 -/- -/- -/- -/- H 697 -/- -/- -/- -/- N Brg Wid = - Min Req = - H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -776 D - E 0 -1749 B - C 0 -776 E - F 0 -917 C - D 0 -1749 F - H 0 -916

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1463 0	L - K	1518 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -684	E - K	0 -687
A - M	1001 0	K - H	1134 0
M - C	0 -784		



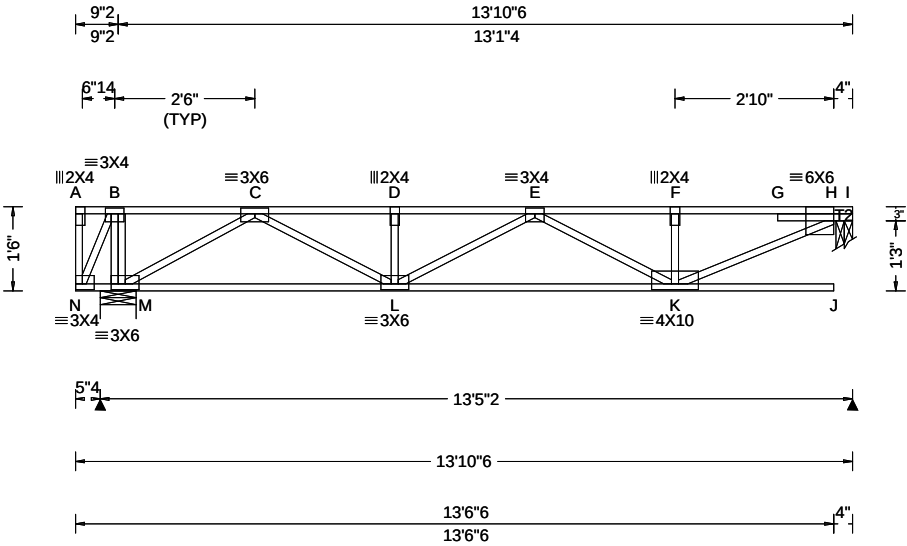
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Building 6

SEQN: 96805 / FROM:	SY42 Qty: 4	Ply: 1 Qty: 4	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F25	Cust: R 9316 JRef:1Xf393160009 T11 / DrwNo: 118.22.1357.06250 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 J 784 480 VERT(CL): 0.316 J 488 360 HORZ(LL): 0.013 A - - HORZ(TL): 0.024 A - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.630 Max Web CSI: 0.367 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity M 729 /- /- /- /- /- H 659 /- /- /- /- /- M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 0 -1447 E - F 0 -1177 D - E 0 -1447 F - H 0 -1178

Lumber
Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
M - L	912	0	L - K	1482 0
Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens. Comp.	
M - C	0 -1015	K - H	1301	0
C - L	614	0		



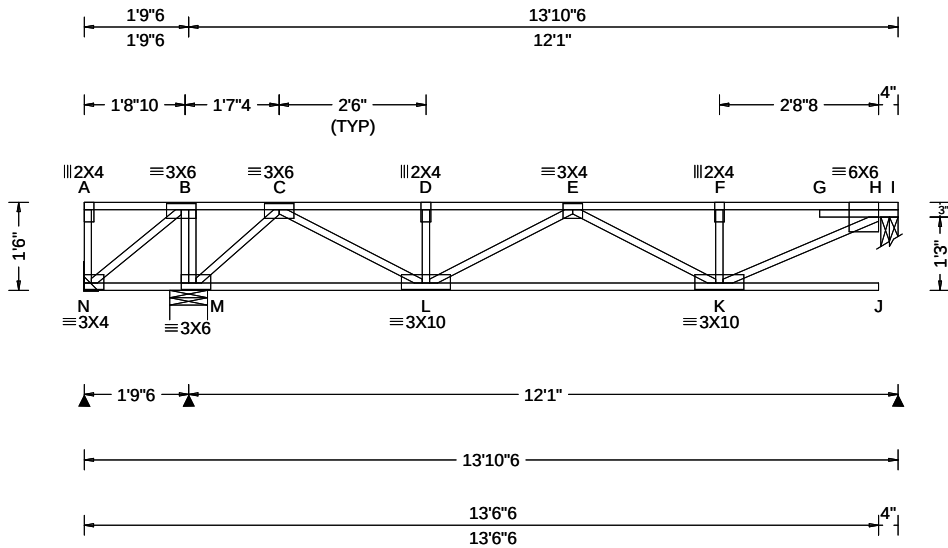
04/28/2022

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Building 6

SEQN: 96807 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F26	Cust: R 9316 JRef:1Xf393160009 T5 / DrwNo: 118.22.1357.05851 / NDW 04/28/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/def L/#		Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.158 J 897 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.249 J 570 360		N	-	/-358	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): 0.007 C - -		M	1154	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code:		HORZ(TL): 0.013 C - -		H	547	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft				Creep Factor: 2.0		N Brg Wid = - Min Req = -						
Soffit: 0.00		TCDL: NA psf		IBC 2018		Max TC CSI: 0.823		M Brg Wid = 7.7 Min Req = 1.5 (Truss)						
Load Duration: 1.00		BCDL: NA psf		TPI Std: 2014		Max BC CSI: 0.493		H Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Spacing: 16.0 "		MWFRS Parallel Dist: NA		Rep Fac: Yes		Max Web CSI: 0.284		Bearings M & H are a rigid surface.						
		C&C Dist a: NA ft		FT/RT:12(0)/10(0)				Members not listed have forces less than 375#						
		Loc. from endwall: NA		Plate Type(s):				Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA		WAVE		VIEW Ver: 21.02.00.1005.17		Chords Tens.Comp. Chords Tens. Comp.						
		Wind Duration: NA												

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	0 -465	L - K	1035 0

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	596 0	C - L	815 0
B - M	0 -533	K - H	1005 0
M - C	0 -843		



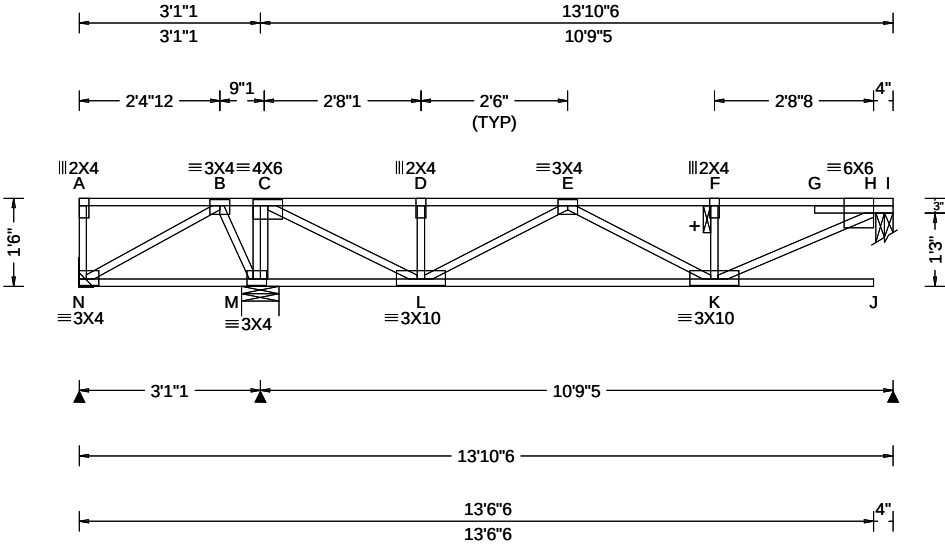
04/28/2022

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Building 6

SEQN: 96809 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F27	Cust: R 9316 JRef:1Xf393160009 T9 / DrwNo: 118.22.1357.05749 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
				Gravity			Non-Gravity				
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.147 J 869 480	N	44	/-139	/-	/-	/-	/-	
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.233 J 549 360	M	963	/-	/-	/-	/-	/-	
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.004 C - -	H	491	/-	/-	/-	/-	/-	
Des Ld: 75.00	EXP: NA Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	HORZ(TL): 0.007 C - -	Creep Factor: 2.0							
NCBCLL: 0.00	Mean Height: NA ft		Max TC CSI: 0.748	N Brg Wid = - Min Req = -							
Soffit: 0.00	TCDL: NA psf		Max BC CSI: 0.436	M Brg Wid = 7.7 Min Req = 1.5 (Truss)							
Load Duration: 1.00	BCDL: NA psf		Max Web CSI: 0.272	H Brg Wid = 3.5 Min Req = 1.5 (Truss)							
Spacing: 16.0 "	MWFRS Parallel Dist: NA			Bearings M & H are a rigid surface.							
	C&C Dist a: NA ft			Members not listed have forces less than 375#							
	Loc. from endwall: NA			Maximum Top Chord Forces Per Ply (lbs)							
	I: NA GCpi: NA			Chords Tens.Comp. Chords Tens. Comp.							
	Wind Duration: NA		VIEW Ver: 21.02.00.1005.17	B	C	437	0	5	5	0	392

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		
L - K	815	0	

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens.	Comp.
M - C	0	-633	K - H	872 0
C - L	964	0		

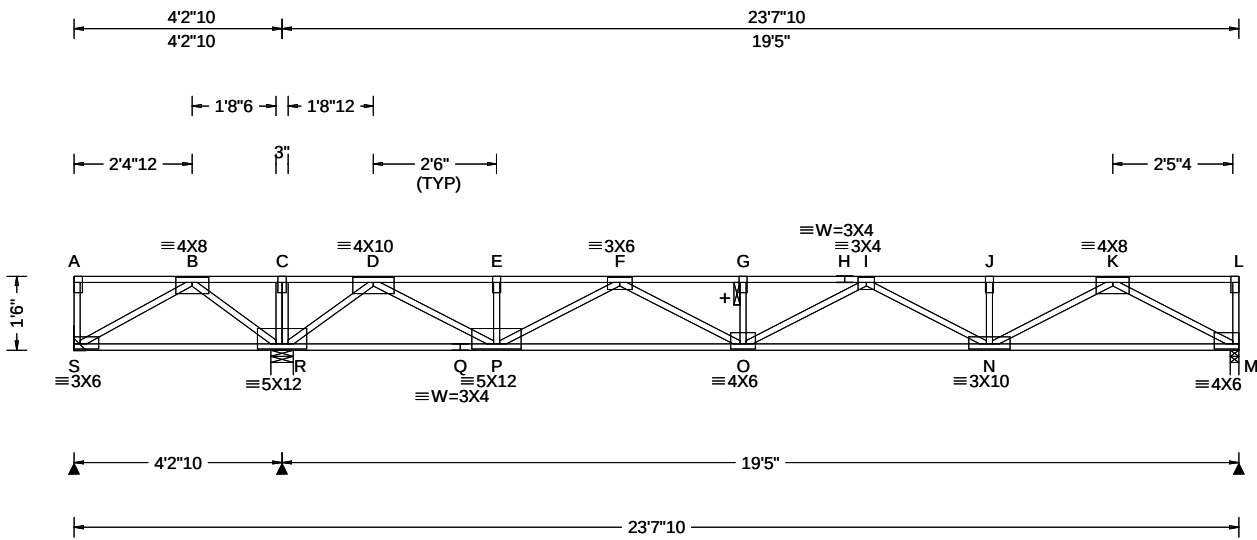


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Building 6

SEQN: 96811 / FROM:	SY42 Qty: 6	Ply: 1	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F28	Cust: R 9316 JRef:1X1393160009 T10 / DrwNo: 118.22.1357.05850 / NDW 04/28/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)	
TCLL:	40.00	Wind Std:	NA	Pg: NA	Ct: NA	PP Deflection in	loc L/def L/#	Gravity	
TCDL:	25.00	Speed:	NA mph	Pf: NA	Ce: NA	VERT(LL):	0.196 G	Loc	R+ / R- / Rh
BCLL:	0.00	Enclosure:	NA	Lu: NA	Cs: NA	VERT(CL):	0.369 G	Non-Gravity	
BCDL:	10.00	Category:	NA	Snow Duration:	NA	HORZ(LL):	0.021 M	/ Rw / U / RL	
Des Ld:	75.00	EXP: NA	Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE		HORZ(TL):	0.039 M	S	- /-490 /- /- /- /-
NCBCLL:	0.00	Mean Height:	NA ft			Creep Factor:	2.0	R	1906 /- /- /- /- /-
Soffit:	0.00	TCDL:	NA psf			Max TC CSI:	0.660	M	843 /- /- /- /- /-
Load Duration:	1.00	BCDL:	NA psf			Max BC CSI:	0.795	S	Brg Wid = - Min Req = -
Spacing:	16.0 "	MWFRS Parallel Dist:	NA	VIEW Ver: 21.02.00.1005.17		Max Web CSI:	0.467	R	Brg Wid = 5.5 Min Req = 1.5 (Truss)
		C&C Dist a:	NA ft					M	Brg Wid = 2.1 Min Req = 1.5 (Truss)
		Loc. from endwall:	NA					Bearings R & M are a rigid surface.	
		I: NA	GCpi: NA					Members not listed have forces less than 375#	
		Wind Duration:	NA					Maximum Top Chord Forces Per Ply (lbs)	
								Chords	Tens.Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Negative reaction(s) of -490# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)		Chords		Tens.Comp.	Chords		Tens. Comp.
S - R	0	-944	P - O	1976	0		
R - Q	0	-440	O - N	2573	0		
Q - P	0	-440	N - M	1350	0		
Maximum Web Forces Per Ply (lbs)		Webs		Tens.Comp.	Webs		Tens. Comp.
S - B	1088	0	F - O	633	0		
B - R	0	-1142	I - N	0	-408		
R - D	0	-1649	N - K	988	0		
D - P	1656	0	K - M	0	-1532		
P - F	0	-1087					

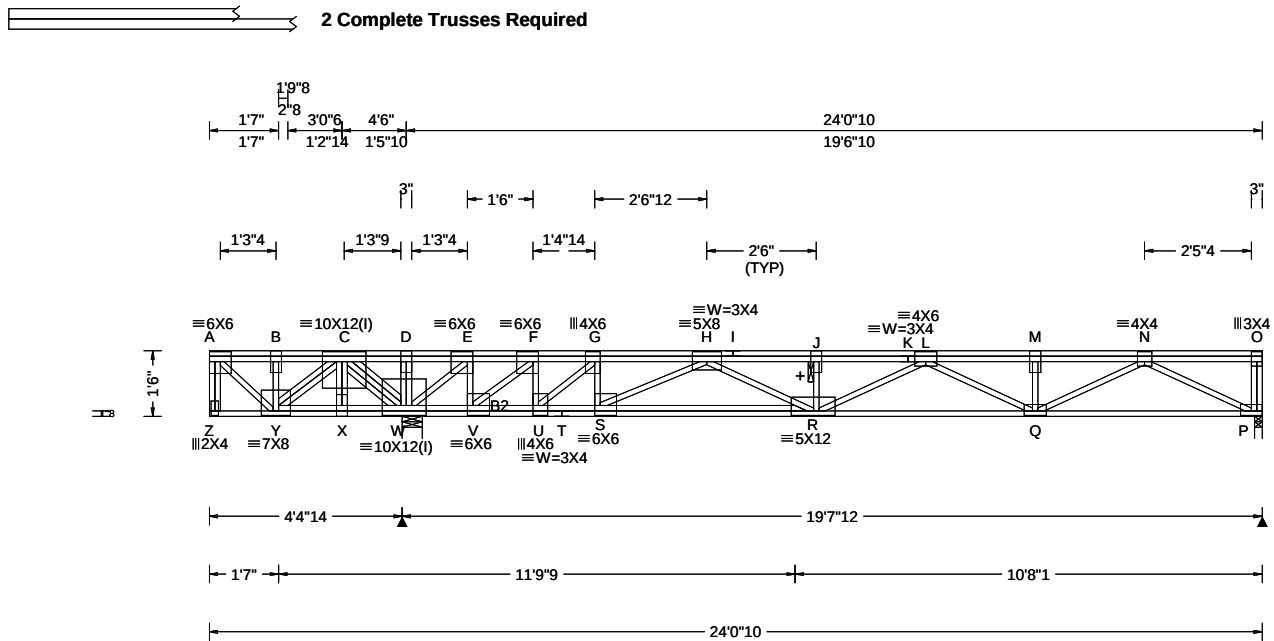


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SEQN: 96813 /	SY42	Ply: 2	Job Number: JB-220579F	Cust: R 9316 JRef:1Xf393160009 T12 /
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 118.22.1357.05685
			Truss Label: F28G	/ NDW 04/28/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.120 A 443 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.268 Z 396 360	W 8750 /- /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.025 A - -	P 618 /-243 /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.057 A - -	W Brg Wid = 5.5 Min Req = 1.5 (Truss)
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.433	Bearings W & P are a rigid surface.
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.260	Members not listed have forces less than 375#
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.271	Maximum Top Chord Forces Per Ply (lbs)
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Chords Tens.Comp. Chords Tens. Comp.
	Loc. from endwall: NA	Plate Type(s):		A - B 597 0 H - I 1855 -383
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17	B - C 597 0 I - J 1855 -383
	Wind Duration: NA			

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
 TC: From 87 plf at 0.00 to 87 plf at 24.05
 BC: From 13 plf at 0.00 to 13 plf at 24.05
 TC: 1129 lb Conc. Load at 0.12
 TC: 5500 lb Conc. Load at 3.03

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions

Truss must be installed as shown with top chord up.



04/28/2022

▲ Maximum Reactions (lbs)						
Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8750	/-	/-	/-	/-	/-
P	618	/-243	/-	/-	/-	/-
W	Brg Wid = 5.5		Min Req = 1.5 (Truss)			
P	Brg Wid = 2.1		Min Req = 1.5 (Truss)			
Bearings W & P are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.Comp.		Chords	Tens. Comp.		
A - B	597	0	H - I	1855	- 383	
B - C	597	0	I - J	1855	- 383	
C - D	5342	0	J - K	1853	- 389	
D - E	5337	0	K - L	1853	- 389	
E - F	4767	0	L - M	685	- 689	
F - G	4126	0	M - N	685	- 689	
G - H	3551	0				

Chords	Tens.Comp.	Chords	Tens. Comp.
Y - X	0 - 1645	T - S	0 - 3597
X - W	0 - 1635	S - R	0 - 2646
W - V	0 - 4815	R - Q	647 - 1215
V - U	0 - 4178	Q - P	456 - 296
U - T	0 - 3597		

Webs	Tens.Comp.	Webs	Tens. Comp.
A - Y	0 - 789	G - S	577 0
Y - C	1366 0	S - H	0 - 1230
C - W	0 - 5021	H - R	961 0
W - E	0 - 1030	R - L	0 - 716
E - V	677 0	L - Q	599 0
V - F	0 - 1093	Q - N	264 - 439
F - U	694 0	N - P	330 - 495
U - G	0 - 980		

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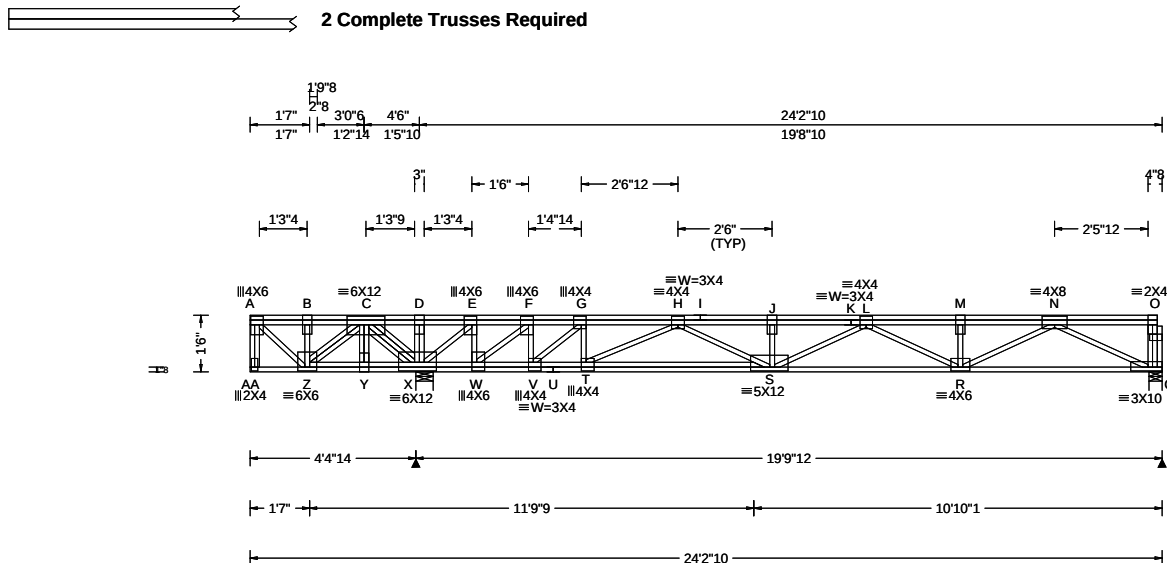
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ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96825 / FROM:	SY42 Ply: 2 Qty: 1	Job Number: JB-220579F Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F29G	Cust: R 9316 JRef: 1Xf393160009 T27 / DrwNo: 118.22.1357.06839 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.094 L 999 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.183 J 999 360	X 1475 /- /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.014 Q - -	Q 974 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.029 Q - -	X Brg Wid = 5.5 Min Req = 1.5 (Truss)
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	X Brg Wid = 4.1 Min Req = 1.5 (Truss)
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.108	Bearings X & Q are a rigid surface.
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.506	Members not listed have forces less than 375#
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.191	Maximum Top Chord Forces Per Ply (lbs)
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Chords Tens.Comp. Chords Tens. Comp.
	Loc. from endwall: NA	Plate Type(s):		C - D 375 0 I - J 0 -1744
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17	E - F 101 -392 J - K 0 -1750
	Wind Duration: NA			

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2:

All plates are 3X6 except as noted.

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

▲ Maximum Reactions (lbs)						
	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
X	1475	/-	/-	/-	/-	/-
Q	974	/-	/-	/-	/-	/-
X	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
Q	Brg Wid = 4.1 Min Req = 1.5 (Truss)					
Bearings X & Q are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.Comp.		Chords		Tens. Comp.	
C - D	375	0	I - J		0	-1744
E - F	101	-392	J - K		0	-1750
F - G	0	-854	K - L		0	-1750
G - H	0	-1223	L - M		0	-1395
H - I	0	-1744	M - N		0	-1395

Maximum Bot Chord Forces Per Ply (lbs)					
Chords		Tens.Comp.	Chords		Tens. Comp.
W - V	820	0	T - S	1596	0
V - U	1199	0	S - R	1672	0
U - T	1199	0	R - Q	841	0

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.	Comp.	Webs	Tens.	Comp.
X - E	0	-684	T - H	0	-452
E - W	397	0	R - N	626	0
W - F	0	-599	N - Q	0	-938
V - G	0	-501			



04/28/2022

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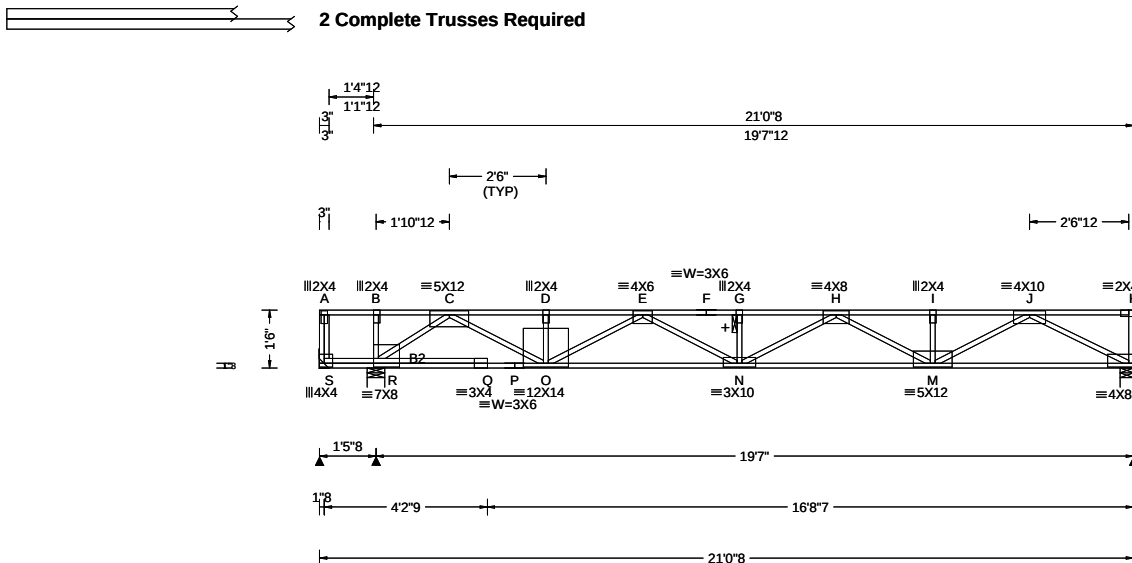
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Building 6

SEQN: 9794 /	SY42	Ply: 2	Job Number: JB-220579F	Cust: R 9316 JRef:1Xf393160009 T22 /
FROM:		Qty: 1	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 118.22.1357.06763
			Truss Label: F30G	/ NDW 04/28/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.316 G 741 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.593 G 395 360	S 23 /-94 /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.043 C - -	R 3996 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.080 C - -	L 1984 /- /- /- /- /-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	S Brg Wid = - Min Req = -
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.658	R Brg Wid = 5.5 Min Req = 1.5 (Truss)
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.747	L Brg Wid = 4.1 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Varies by Ld Case	Max Web CSI: 0.609	Bearings R & L are a rigid surface.
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Members not listed have forces less than 375#
	Loc. from endwall: NA	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17	Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: NA			

Lumber

Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
 TC: From 87 plf at 0.00 to 87 plf at 20.92
 BC: From 13 plf at 0.00 to 13 plf at 21.04
 TC: 443 lb Conc. Load at 0.94
 TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27
 7.60, 8.94, 10.27, 11.60, 12.94

Deflection

Max JT VERT DEFL: LL: 0.31" DL: 0.27". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



04/28/2022

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
R - Q	1931	0	O - N	4919	0
Q - P	1930	0	N - M	4530	0
P - O	1930	0	M - L	1824	0

Maximum Web Forces Per Ply (lbs)				
Webbs	Tens.Comp.		Webbs	Tens. Comp.
B - R	0	-461	G - N	0 -474
R - C	0	-2401	N - H	754 0
C - O	2159	0	H - M	0 -1425
D - O	0	-468	M - J	1663 0
O - E	0	-1252	J - L	0 -2049

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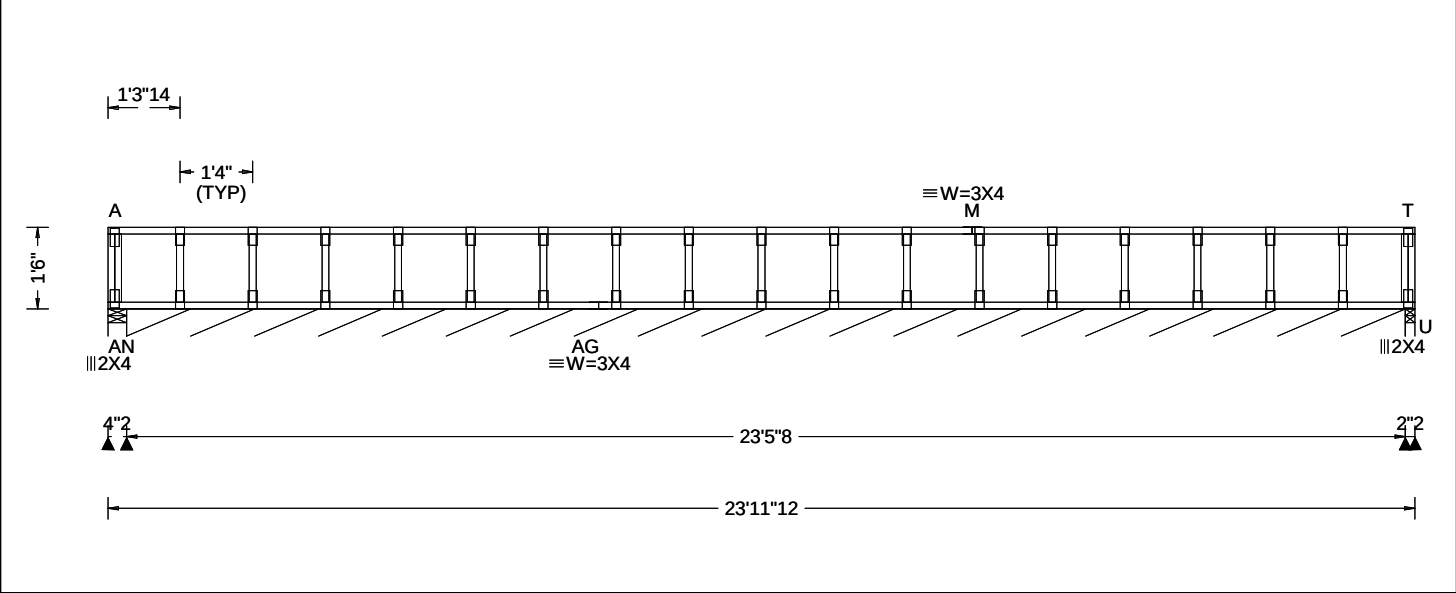
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ALPINE
AN ITW COMPANY

514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 6

SEQN: 96815 / FROM:	SY42 Ply: 1 Qty: 2	Job Number: JB-220579F Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L11	Cust: R 9316 JRef:1Xf393160009 T29 / DrwNo: 118.22.1357.06151 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *≡PLF						
				Gravity			Non-Gravity			
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.000 T 999 480							
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.001 T 999 360	AN 68	/-	/-	/-	/-	/-	/-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.003 B - -	AN*97	/-	/-	/-	/-	/-	/-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.005 B - -	U 64	/-	/-	/-	/-	/-	/-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	AN Brg Wid = 4.1 Min Req = 1.5 (Truss)						
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.060	AN Brg Wid = 281 Min Req = -						
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.013	U Brg Wid = 2.1 Min Req = 1.5 (Truss)						
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.018	Bearings AN, AN, & U are a rigid surface.						
	C&C Dist a: NA ft	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#						
	Loc. from endwall: NA	Plate Type(s):								
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: NA									

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

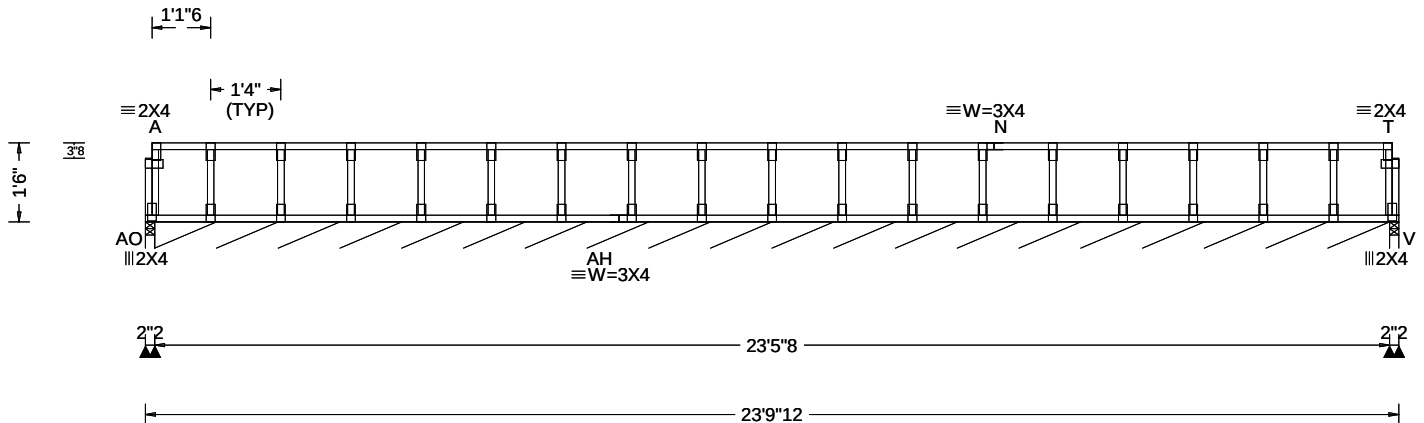


04/28/2022

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ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96817 / FROM:	SY42 Ply: 1 Qty: 3	Job Number: JB-220579F Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: L21	Cust: R 9316 JRef: 1Xf393160009 T30 / DrwNo: 118.22.1357.06275 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=-PLF
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.000 T 999 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.000 T 999 360	AO 48 /- /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.000 B - -	AO*97 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.000 B - -	V 48 /- /- /- /- /-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	AO Brg Wid = 2.1 Min Req = 1.5 (Truss)
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.057	AO Brg Wid = 281 Min Req = -
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.009	V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.018	Bearings AO, AO, & V are a rigid surface.
	C&C Dist a: NA ft	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#
	Loc. from endwall: NA	Plate Type(s):		
	I: NA GCpi: NA			
	Wind Duration: NA	WAVE	VIEW Ver: 21.02.00.1005.17	

Truss must be installed as shown with top chord up.



07-26-2024

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Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



ITW COMPANY

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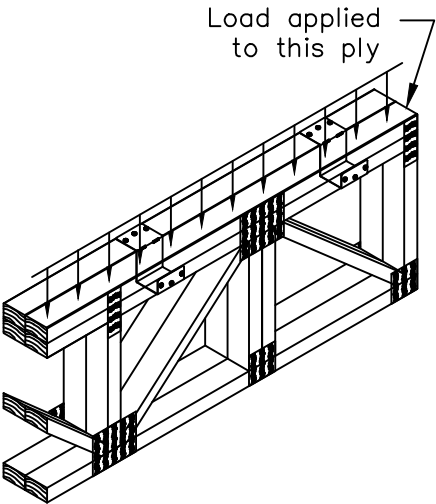
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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

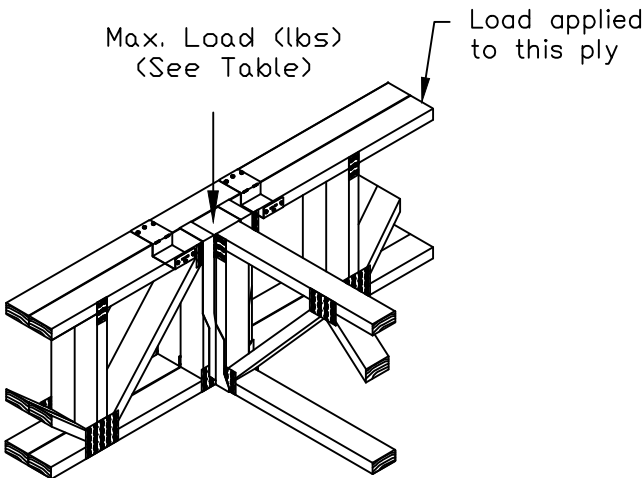
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application

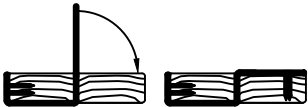


Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.
2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

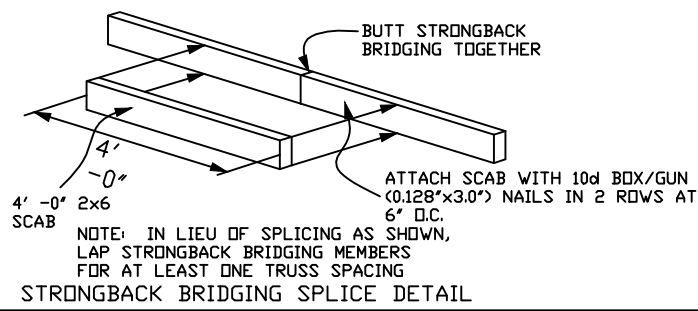


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DUR. FAC. ALL

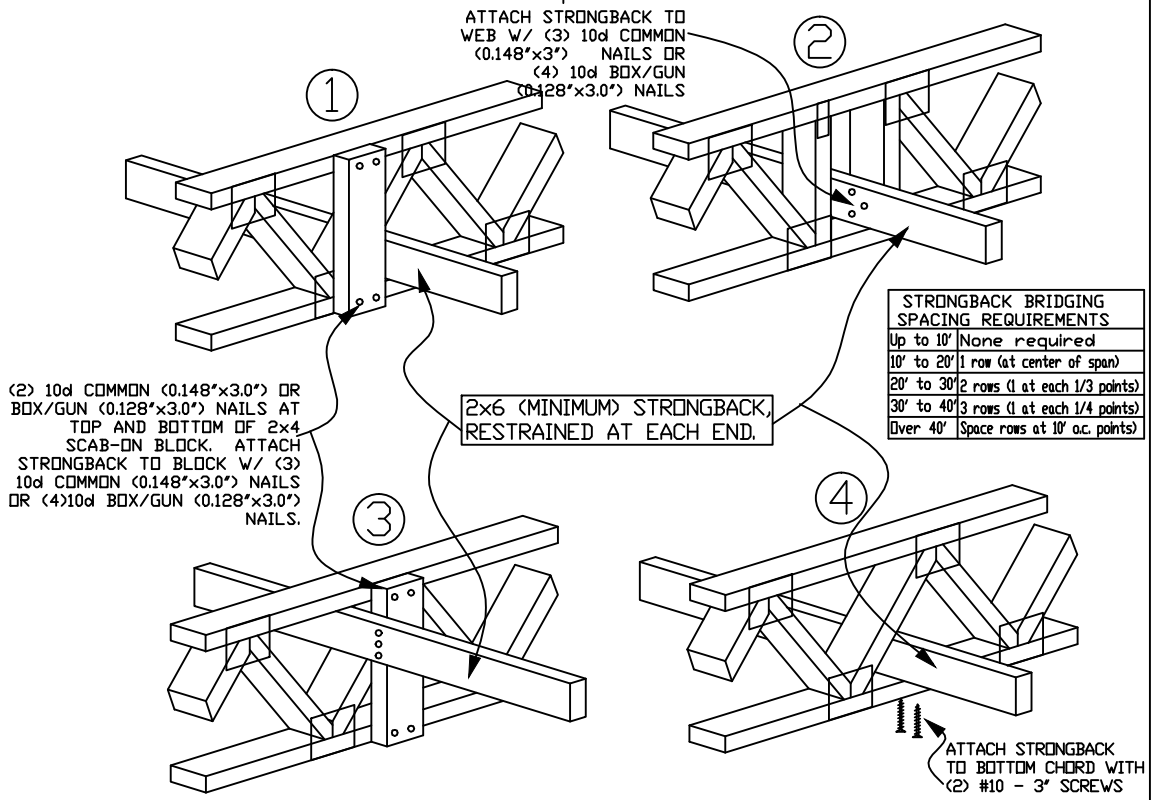
REF SY42 Connection
DATE 10/01/14
DRWG LSCSYX2A1014

STRONGBACK BRIDGING RECOMMENDATIONS



- ▶ All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- ▶ All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- ▶ The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- ▶ The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

NOTE: Details 1 and 2 are the preferred attachment methods



The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).



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ALPINE: www.alpineitw.com TPI: www.tpinst.org SBCA: www.sbcacomponents.com ICC: www.iccsafe.org

TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			



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Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Roof Layout Shop Drawings	RETURNED NOT REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

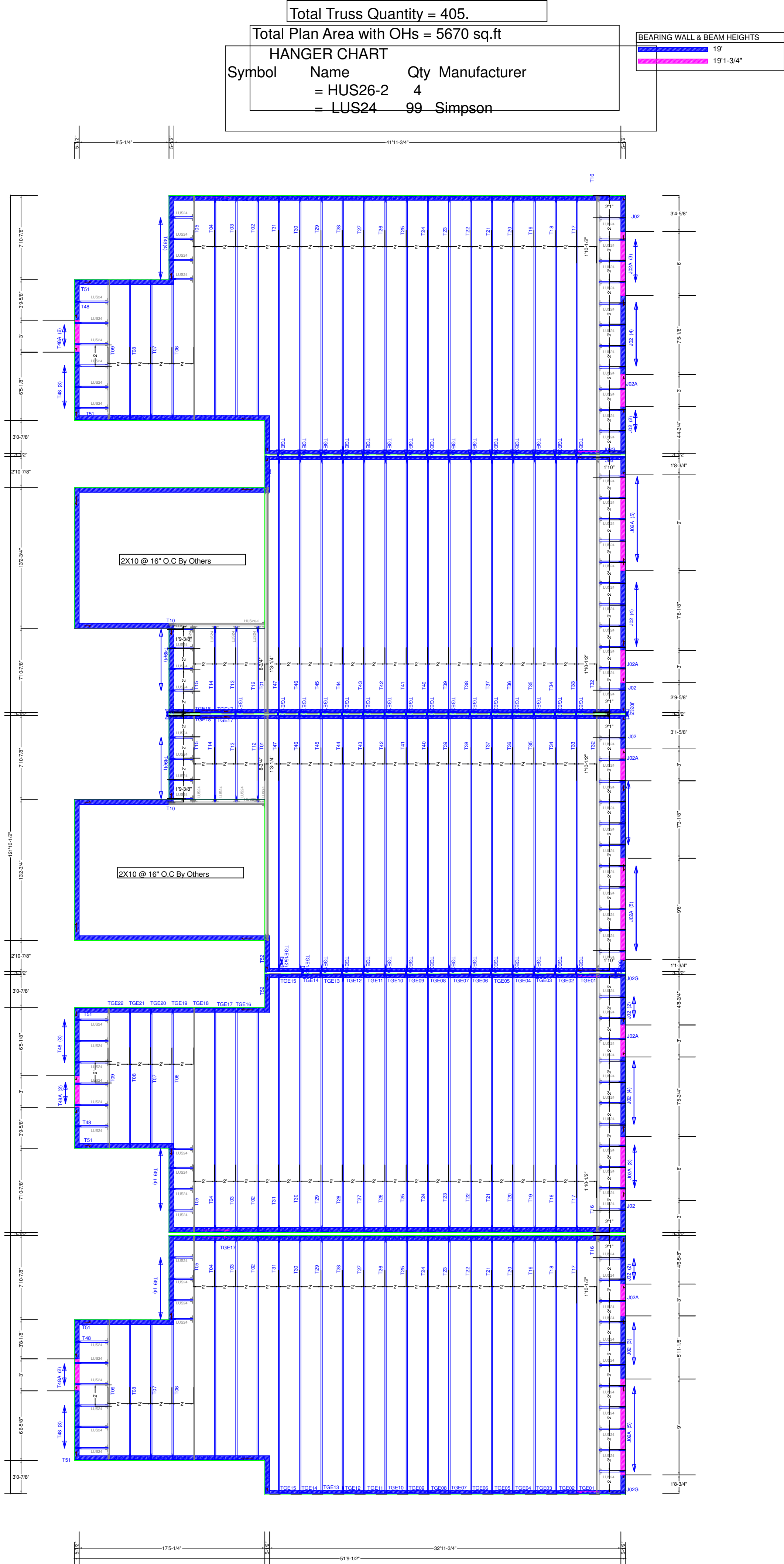
BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 6 Roof Layout



REVIEWED ☒ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/10/2022 BY: CB

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses



3853 S. Halsey Rd.
Halestead, KS 67059
(316) 830-6108

Job Name:

McCambridge Brothers Construction

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Designer: Juan R Quiroz

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Reference #: JB-220579R

Date: 4/28/2022

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4192 (314)344-9121
alpineitw.com

04/28/2022

REVIEWED ☒ DATE RECEIVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/10/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220579R
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:			
Design Code: IBC 2018		IntelliVIEW Version: 21.02.00	
		JRef #: 1Xf393160008	
Wind Standard: ASCE 7-16	Wind Speed (mph): 109	Design Loading (psf): 60.00	
Building Type: Closed			

This package contains general notes pages, 79 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	118.22.1352.51396	J02	2	118.22.1352.49327	J02G
3	118.22.1352.49517	J03	4	118.22.1352.51059	T01
5	118.22.1352.49762	T02	6	118.22.1352.51361	T03
7	118.22.1352.50338	T04	8	118.22.1352.49564	T05
9	118.22.1352.52026	T06	10	118.22.1352.50037	T07
11	118.22.1352.48896	T08	12	118.22.1352.51083	T10
13	118.22.1352.49487	T12	14	118.22.1352.50663	T13
15	118.22.1352.52044	T14	16	118.22.1352.48879	T15
17	118.22.1415.54180	T17	18	118.22.1352.50211	T18
19	118.22.1352.50431	T19	20	118.22.1352.50188	T20
21	118.22.1352.50577	T21	22	118.22.1352.50991	T22
23	118.22.1352.52090	T23	24	118.22.1352.51547	T24
25	118.22.1352.49721	T25	26	118.22.1352.51510	T26
27	118.22.1352.50925	T27	28	118.22.1352.49680	T28
29	118.22.1352.50625	T29	30	118.22.1352.48938	T30
31	118.22.1352.52054	T31	32	118.22.1352.50707	T33
33	118.22.1352.50313	T34	34	118.22.1352.50376	T35
35	118.22.1352.51466	T36	36	118.22.1352.52134	T37
37	118.22.1352.51223	T38	38	118.22.1352.51424	T39
39	118.22.1352.50169	T40	40	118.22.1352.50626	T41
41	118.22.1352.50826	T42	42	118.22.1352.50827	T43
43	118.22.1352.50540	T44	44	118.22.1352.50730	T45
45	118.22.1352.50022	T46	46	118.22.1352.50496	T47
47	118.22.1352.49505	T48	48	118.22.1352.51589	T49
49	118.22.1352.51169	T50	50	118.22.1352.51692	T51



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/28/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	Job Number: JB-220579R
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	118.22.1352.51642	T52
53	118.22.1352.51165	TGE02
55	118.22.1352.51771	TGE04
57	118.22.1352.49300	TGE06
59	118.22.1352.50251	TGE08
61	118.22.1352.50940	TGE10
63	118.22.1352.49656	TGE12
65	118.22.1352.49303	TGE14
67	118.22.1352.48867	TGE16
69	118.22.1352.49381	TGE18
71	118.22.1352.49142	TGE20
73	118.22.1352.51095	TGE22
75	118.22.1415.27923	T09
77	118.22.1352.51535	T48A
79	118.22.1415.46960	T16
81	BRCLBSUB0119	
83	GABRST160118	

Item	Drawing Number	Truss
52	118.22.1352.52159	TGE01
54	118.22.1352.51814	TGE03
56	118.22.1352.49610	TGE05
58	118.22.1352.50065	TGE07
60	118.22.1352.50855	TGE09
62	118.22.1352.51726	TGE11
64	118.22.1352.49820	TGE13
66	118.22.1352.51673	TGE15
68	118.22.1352.48895	TGE17
70	118.22.1352.50091	TGE19
72	118.22.1352.50865	TGE21
74	118.22.1352.50901	TGE23
76	118.22.1352.49929	J02A
78	118.22.1416.09013	T32
80	A11530ENC160118	
82	DEFLCAMB1014	
84	GBLLETIN0118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

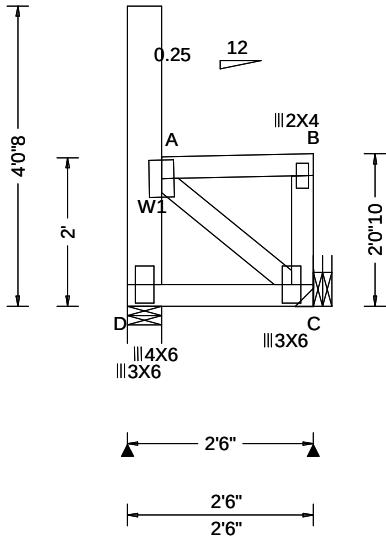
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 6

SEQN: 34418 / FROM:	MONO Ply: 1 Qty: 29	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02	Cust: R 9316 JRef:1Xf393160008 T193 DrwNo: 118.22.1352.51396 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
				Gravity			Non-Gravity		
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	134	/-	/-	/101	/79 /90
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	160	/-	/-	/144	/63 /-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	Wind reactions based on MWFRS					
Des Ld: 60.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.001 B - -	D Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 21.03 ft	IBC 2018	Creep Factor: 2.0	C Brg Wid = - Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	TPI Std: 2014	Max TC CSI: 0.103	Bearing D is a rigid surface.					
Load Duration: 1.15	BCDL: 3.0 psf	Rep Fac: Yes	Max BC CSI: 0.066	Members not listed have forces less than 375#					
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)	Max Web CSI: 0.131	Maximum Web Forces Per Ply (lbs)					
	C&C Dist a: 3.00 ft	Plate Type(s):	VIEW Ver: 21.02.00.1005.17	Webs	Tens.Comp.				
	GCpi: 0.18	WAVE		A - C	238	-387			
	Wind Duration: 1.60								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

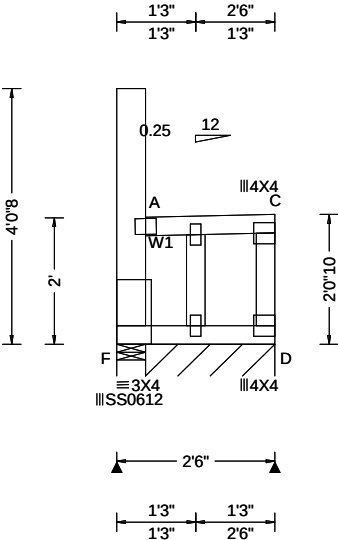


04/28/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 34420 / FROM:	GABL Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02G	Cust: R 9316 JRef:1Xf393160008 T109 DrwNo: 118.22.1352.49327 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.005 A 999 360	F	42	/-	/-	/118	/145	/98
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.007 A 999 240	D*	124	/-	/-	/120	/57	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.091 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.104 A - -	F	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 21.03 ft	Building Code:	Creep Factor: 2.0	D	Brg Wid = 24.5 Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.128	Bearings F & F are a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.370	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.163							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	18SS, WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.
Truss must be installed as shown with top chord up.

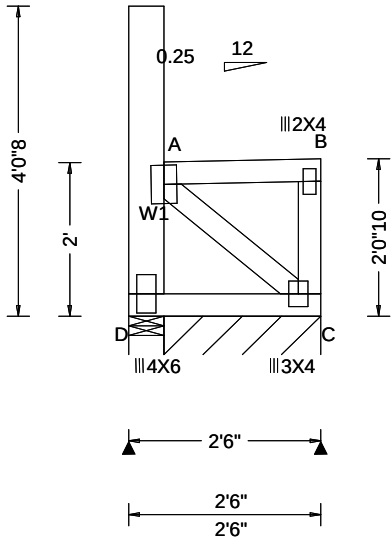


04/28/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 6

SEQN: 34421 / FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J03	Cust: R 9316 JRef:1Xf393160008 T133 DrwNo: 118.22.1352.49517 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	D	134	/-	/-	/110	/85	/98
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	C*	79	/-	/-	/72	/33	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	Wind reactions based on MWFRS						
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	C Brg Wid = 24.5 Min Req = -						
NCBCLL: 0.00	Mean Height: 21.03 ft	Building Code:	Creep Factor: 2.0	Bearings D & D are a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.103	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.066							
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.105							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: not in 14.50 ft	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes
All plates are 3X6 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

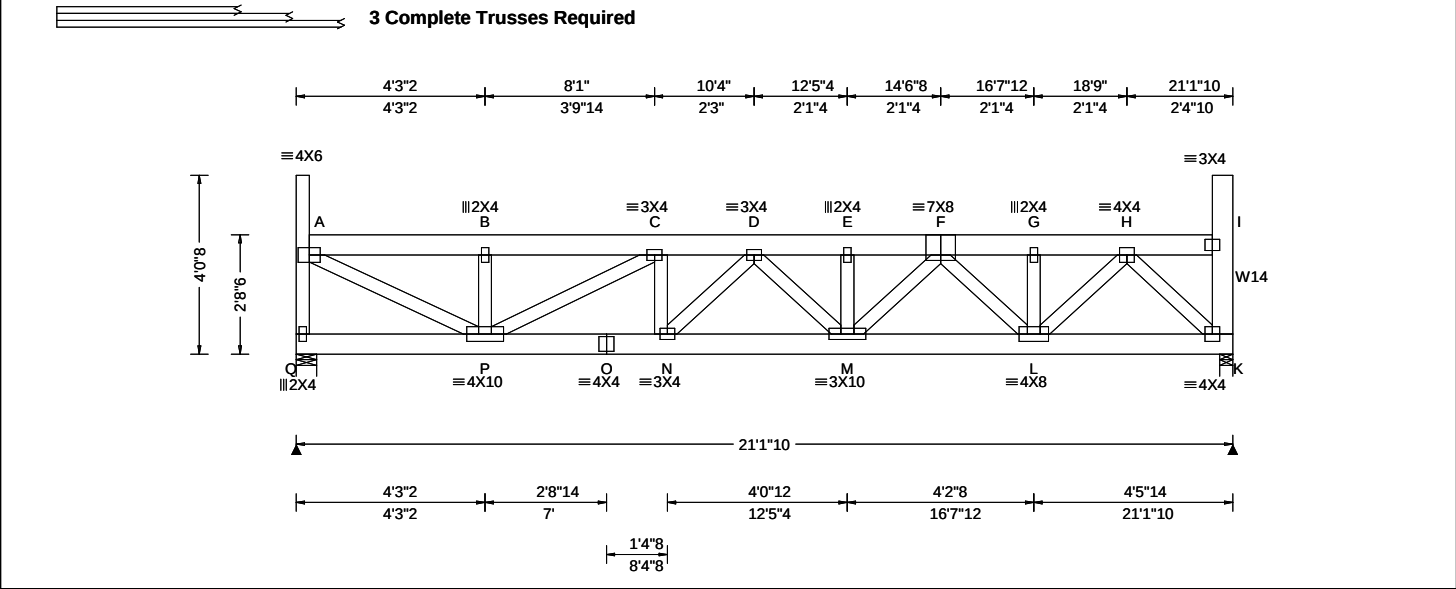


04/28/2022

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SEQN: 34497 / FROM:	FLAT Ply: 3 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T01	Cust: R 9316 JRef:1Xf393160008 T10 / DrwNo: 118.22.1352.51059 / NDW 04/28/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)					
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity			Non-Gravity		
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.060 D 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.102 D 999 240		Q	1828	/-	/-	/-	/117 /-
BCDL: 10.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.014 K - -		K	2145	/-	/-	/-	/150 /-
Des Ld: 60.00		EXP: B Kzt: NA				HORZ(TL): 0.024 K - -		Wind reactions based on MWFRS					
NCBCLL: 0.00		Mean Height: 21.70 ft		Building Code:		Creep Factor: 2.0		Q Brg Wid = 5.5 Min Req = 1.5 (Truss)					
Soffit: 2.00		TCDL: 5.0 psf		IBC 2018		Max TC CSI: 0.049		K Brg Wid = 3.5 Min Req = 1.5 (Truss)					
Load Duration: 1.15		BCDL: 3.0 psf		TPI Std: 2014		Max BC CSI: 0.262		Bearings Q & K are a rigid surface.					
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		Rep Fac: Yes		Max Web CSI: 0.269		Members not listed have forces less than 375#					
		C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)				Maximum Top Chord Forces Per Ply (lbs)					
		Loc. from endwall: not in 14.50 ft		Plate Type(s):				Chords		Tens.Comp.		Chords Tens. Comp.	
		GCpi: 0.18		WAVE		VIEW Ver: 21.02.00.1005.17		A - B	68	- 1022	E - F	154	- 2045
		Wind Duration: 1.60						B - C	67	- 1018	F - G	93	- 1282

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 50 plf at 0.00 to 50 plf at 21.14
BC: 1489 lb Conc. Load at 12.90

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 20.39 1.34 13.80 3.32
20.68 0.00 20.39 1.34 13.80 3.32
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.



04/28/2022

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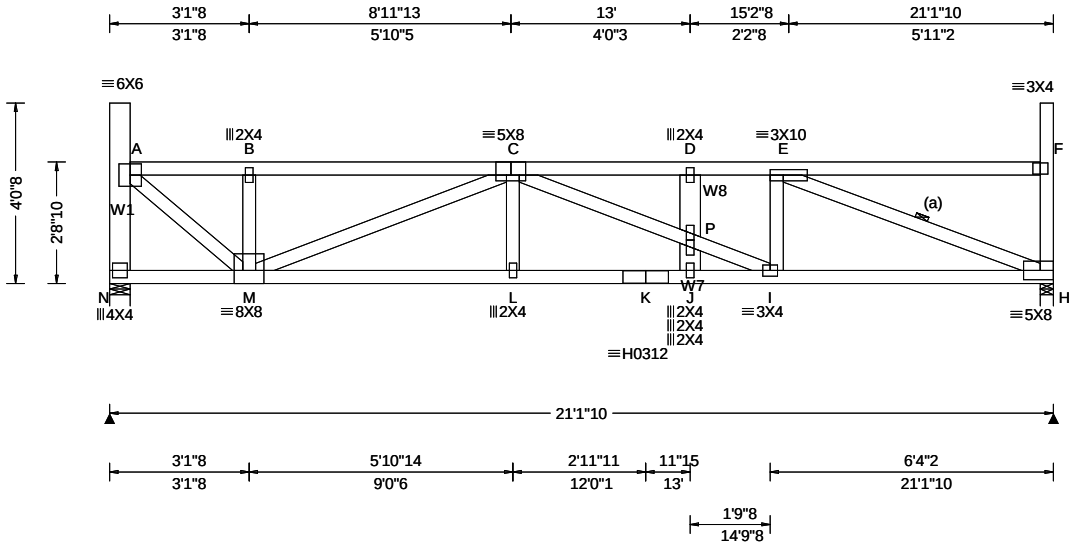
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34422 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T02	Cust: R 9316 JRef:1Xf393160008 T1 / DrwNo: 118.22.1352.49762 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.155 D 999 360 VERT(CL): 0.266 D 953 240 HORZ(LL): 0.046 H - - HORZ(TL): 0.079 H - - Creep Factor: 2.0 Max TC CSI: 0.427 Max BC CSI: 0.928 Max Web CSI: 0.991 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1234 - / - / - /534 /72 /120 H 1246 - / - / - /539 /74 - Non-Gravity Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 1.9 (Truss) H Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 136 -1501 C - D 137 -2445 B - C 136 -1498 D - E 137 -2445

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.32 13.12 3.16
20.84 0.00 20.39 1.32 13.12 3.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

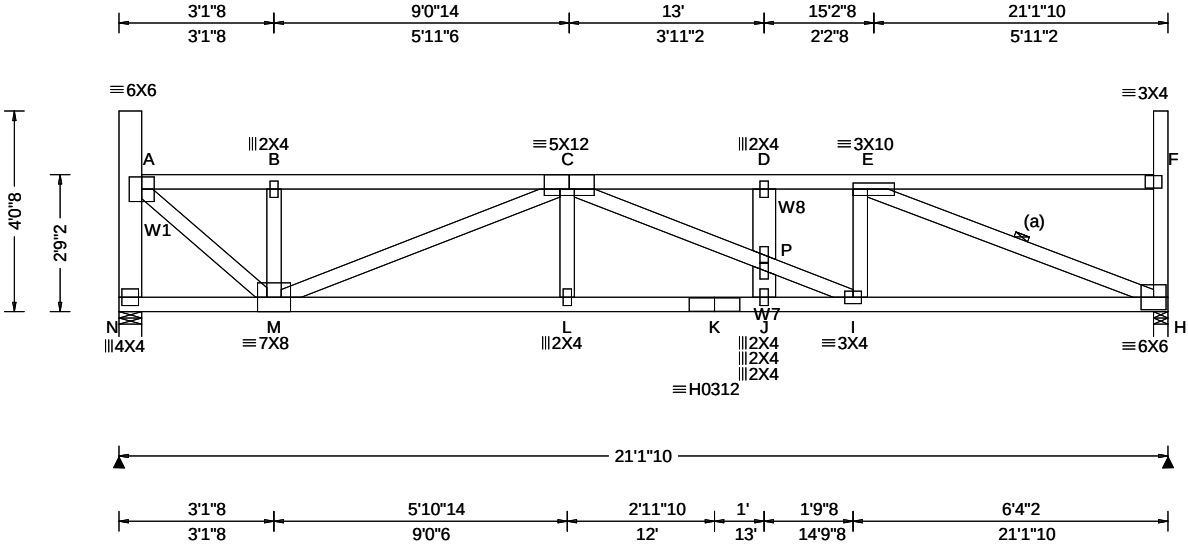
Truss must be installed as shown with top chord up.



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SEQN: 34423 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T03	Cust: R 9316 JRef:1X1393160008 T2 / DrwNo: 118.22.1352.51361 / NDW 04/28/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.151 D 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.249 D 999 240		N	1236	/-	/-	/534	/73	/119
BCDL: 10.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.045 H - -		H	1248	/-	/-	/539	/75	/-
Des Ld: 60.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS		HORZ(TL): 0.078 H - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 21.76 ft				Creep Factor: 2.0		N Brg Wid = 5.5 Min Req = 1.9 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.427		H Brg Wid = 3.5 Min Req = 2.0 (Truss)						
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.921		Bearings N & H are a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h				Max Web CSI: 0.985		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft						Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall: Any						Chords Tens.Comp. Chords Tens. Comp.						
		GCpi: 0.18												
		Wind Duration: 1.60				VIEW Ver: 21.02.00.1005.17								
								A - B 134 - 1478 C - D 136 - 2408						
								B - C 134 - 1475 D - E 136 - 2408						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.28 11.74 2.83
20.84 0.00 20.39 1.28 11.74 2.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

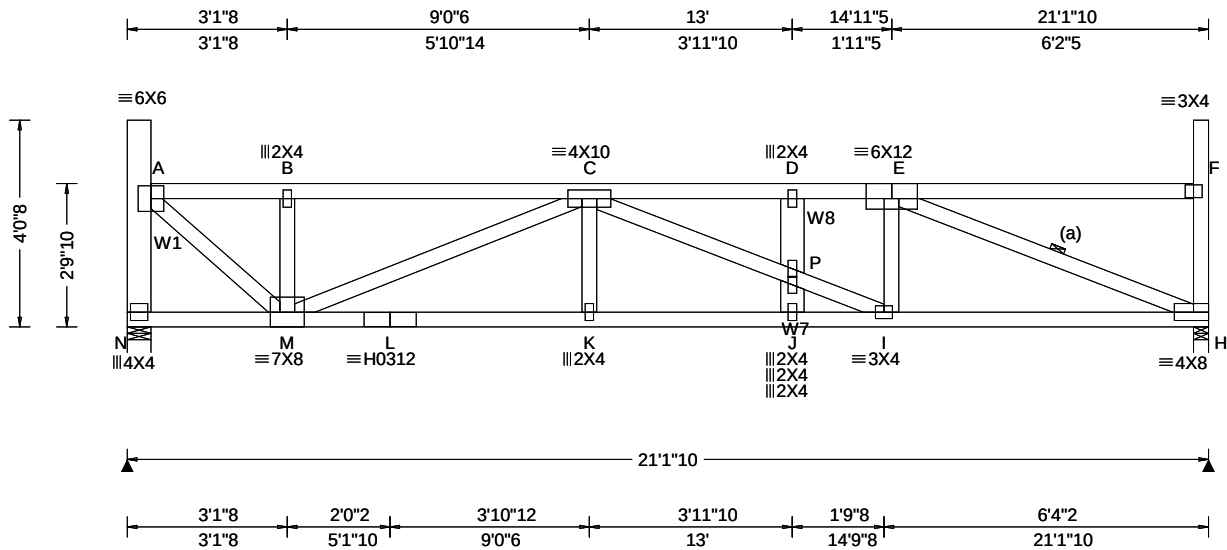
Additional Notes
Truss must be installed as shown with top chord up.



04/28/2022

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SEQN: 34424 / FROM:	FLAT	Ply: 1 Qty: 3	Job Number: JB-220579R Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T04	Cust: R 9316 JRef: 1Xf393160008 T3 / DrwNo: 118.22.1352.50338 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.147 D 999 360	Loc R+ /R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.242 D 999 240	N 1236 /- /- /534 /73 /118
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.045 H - -	H 1248 /- /- /538 /75 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.076 H - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.80 ft	Building Code:	Creep Factor: 2.0	N Brg Wid = 5.5 Min Req = 1.9 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.438	H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.913	Bearings N & H are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.979	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpf: 0.18			
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	
				A - B 132 - 1454 C - D 159 - 2365
				B - C 124 - 1454 D - E 159 - 2365

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



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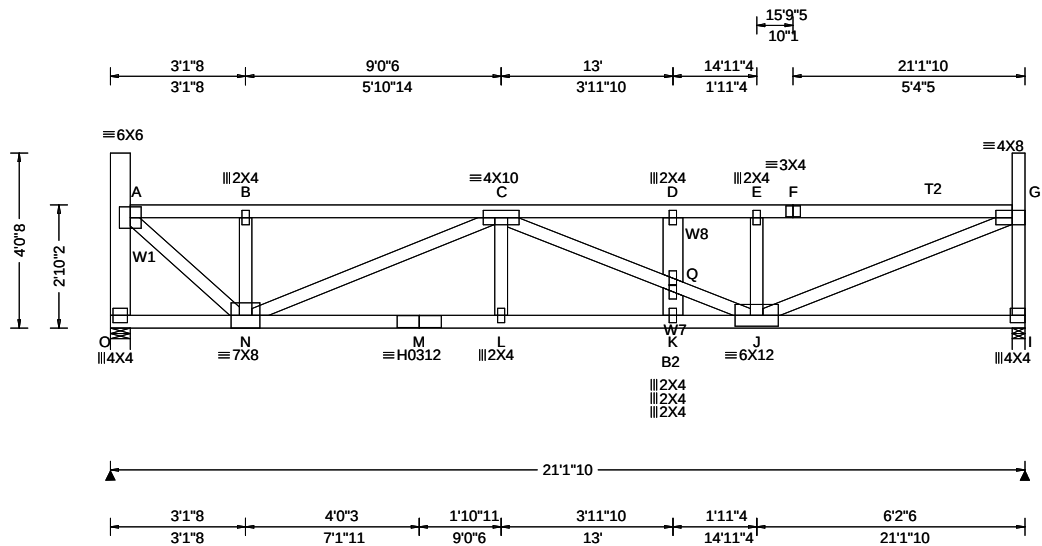


ALPINE
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34490 / FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T05	Cust: R 9316 JRef:1Xf393160008 T11 / DrwNo: 118.22.1352.49564 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.84 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.133 D 999 360 VERT(CL): 0.228 D 999 240 HORZ(LL): 0.032 A - - HORZ(TL): 0.054 A - - Creep Factor: 2.0 Max TC CSI: 0.501 Max BC CSI: 0.806 Max Web CSI: 0.977 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL O 1236 - / - / 533 / 73 / 117 I 1248 - / - / 538 / 75 / - Non-Gravity Wind reactions based on MWFRS O Brg Wid = 5.5 Min Req = 1.9 (Truss) I Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings O & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 130 -1427 D - E 158 -2312 B - C 129 -1424 E - F 157 -2308 C - D 158 -2312 F - G 159 -2317

Lumber
Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.20 8.97 2.16
20.84 0.00 20.39 1.20 8.97 2.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

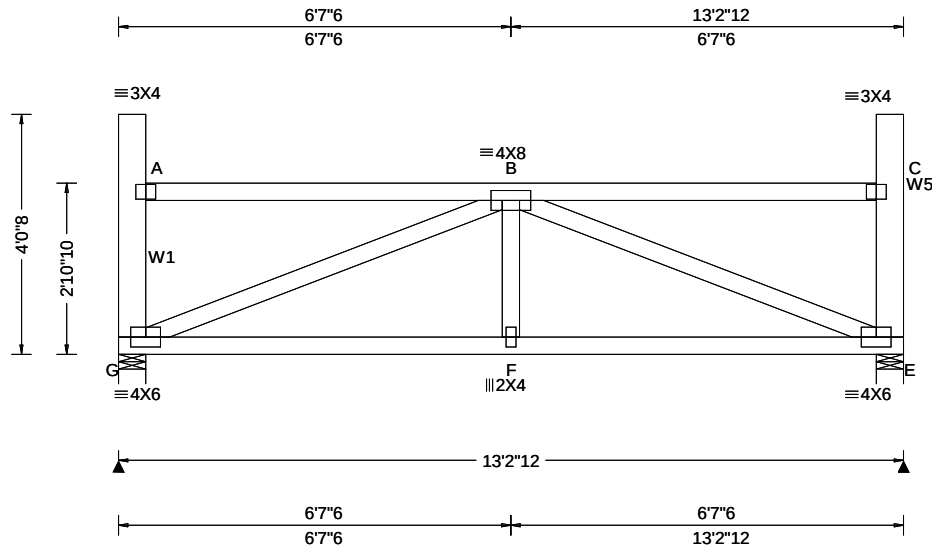
Wind
Wind loads based on MWFRS.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org		04/28/2022	 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 34425 /	SPEC	Ply: 1	Job Number: JB-220579R	Cust: R 9316 JRef:1Xf393160008 T5 /
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 118.22.1352.52026
			Truss Label: T06	/ NDW 04/28/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.043 F 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.074 F 999 240	G 762 /- /- /341 /56 /115
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.015 E - -	E 762 /- /- /341 /56 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.026 E - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.89 ft	Building Code:	Creep Factor: 2.0	G Brg Wid = 5.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.550	E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.642	Bearings G & E are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.986	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Bot Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			G - F 1210 -165 F - E 1210 -165
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W5 2x6 SPF 1650f-1.5E;

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.16	7.59
	12.77	0.00	20.00	1.16	7.59

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



04/28/2022

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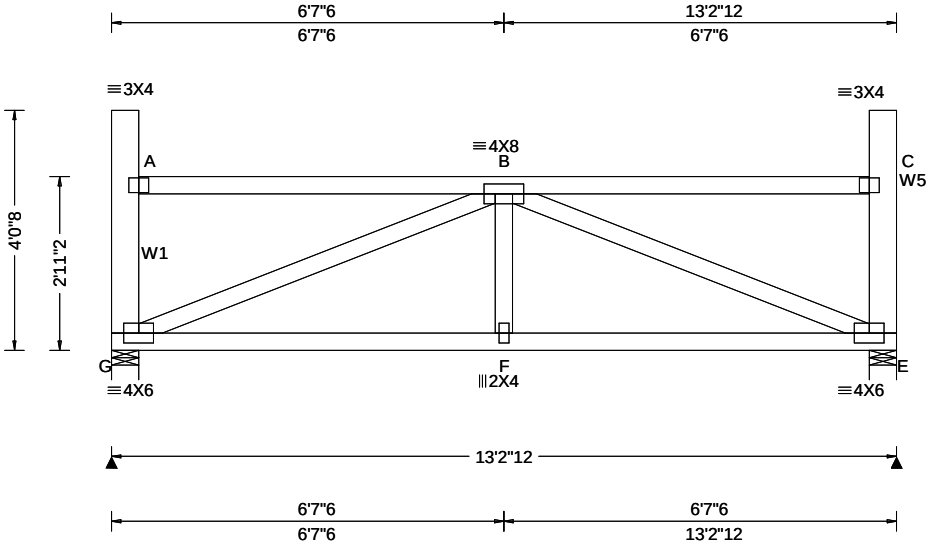
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34426 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T07	Cust: R 9316 JRef:1Xf393160008 T6 / DrwNo: 118.22.1352.50037 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.93 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.042 F 999 360 VERT(CL): 0.072 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.026 E - - Creep Factor: 2.0 Max TC CSI: 0.551 Max BC CSI: 0.639 Max Web CSI: 0.977 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL G 762 /- /- /341 /56 /114 E 762 /- /- /341 /56 /- Non-Gravity Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1191 -163 F - E 1191 -163

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.11 6.20 1.50
12.77 0.00 20.00 1.11 6.20 1.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

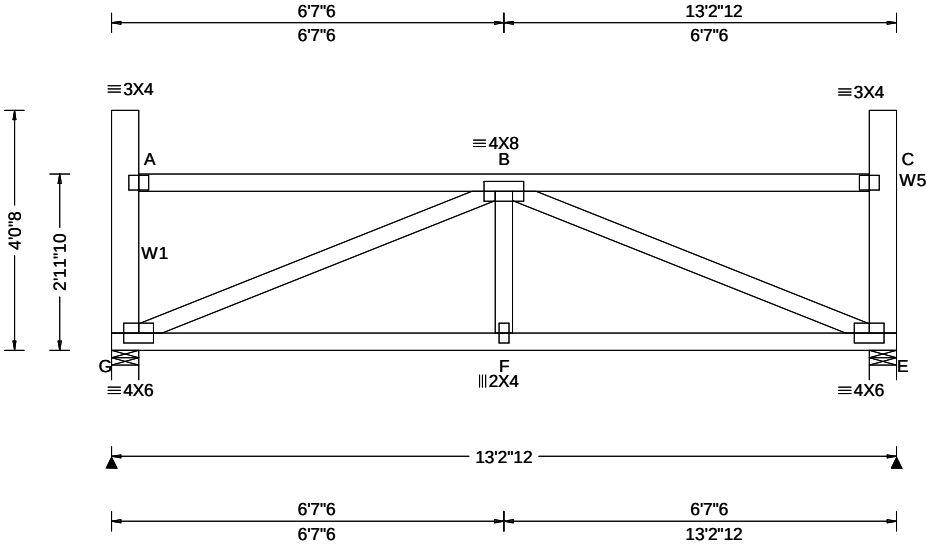


04/28/2022

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Building 6

SEQN: 34427 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08	Cust: R 9316 JRef:1Xf393160008 T7 / DrwNo: 118.22.1352.48896 / NDW 04/28/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.041 F 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.070 F 999 240		G	762	/-	/-	/341	/56	/113	
BCDL: 10.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.015 E - -		E	762	/-	/-	/341	/56	/-	
Des Ld: 60.00		EXP: B Kzt: NA				HORZ(TL): 0.025 E - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height: 21.97 ft		Building Code:		Creep Factor: 2.0		G Brg Wid = 5.5 Min Req = 1.5 (Truss)							
Soffit: 2.00		TCDL: 5.0 psf		IBC 2018		Max TC CSI: 0.551		E Brg Wid = 5.5 Min Req = 1.5 (Truss)							
Load Duration: 1.15		BCDL: 3.0 psf		TPI Std: 2014		Max BC CSI: 0.636		Bearings G & E are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		Rep Fac: Yes		Max Web CSI: 0.969		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)				Maximum Bot Chord Forces Per Ply (lbs)							
		Loc. from endwall: Any		Plate Type(s):				Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18		WAVE		VIEW Ver: 21.02.00.1005.17		G - F		1173 -161		F - E		1173 -161	
		Wind Duration: 1.60													

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



04/28/2022

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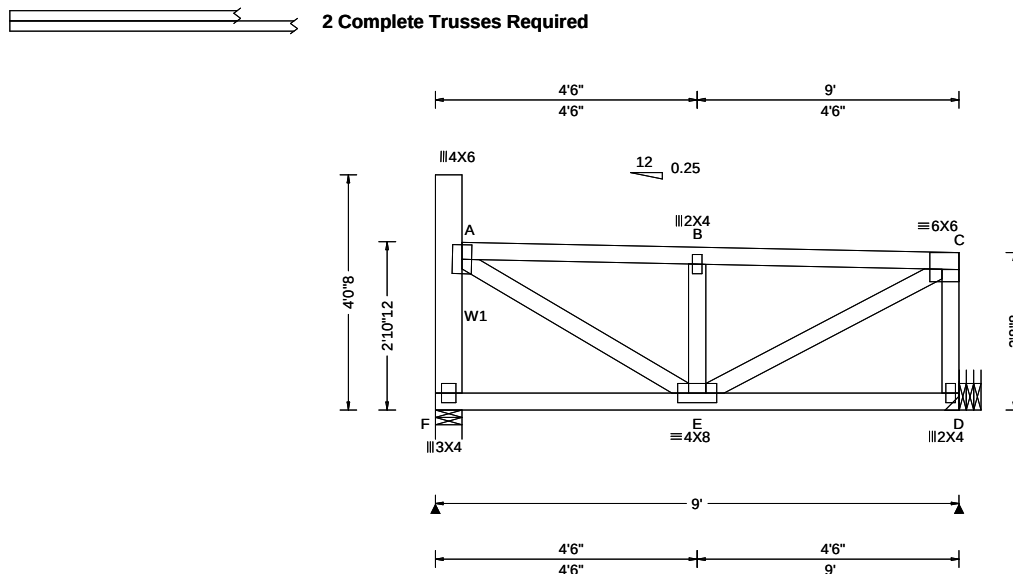
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Glenview, IL 60025

Building 6

SEQN: 34496 /	MONO	Ply: 2	Job Number: JB-220579R	Cust: R 9316 JRef:1Xf393160008 T9 /
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 118.22.1352.51083
			Truss Label: T10	/ NDW 04/28/2022



Leading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.015 B 999 360	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.026 B 999 240	F 1266 /- /- /- /176 /-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.004 A - -	D 1489 /- /- /- /148 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.006 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.80 ft	Building Code:	Creep Factor: 2.0	F Brg Wid = 5.5 Min Req = 1.5 (Truss)
Softit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.117	D Brg Wid = - Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.676	Bearing F is a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.213	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 29.00 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	A - B 95 - 793 B - C 95 - 794

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 4.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	35 plf at	0.46 to	35 plf at	9.00
BC: From	50 plf at	0.00 to	50 plf at	2.33
BC: From	25 plf at	2.33 to	25 plf at	9.00
BC:	713 lb Conc. Load at	2.33		
BC:	487 lb Conc. Load at	4.33, 6.33, 8.33		

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.16	7.63
				1.84	

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load. W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
F - A	50 -453	E - C	869 -106
A - E	832 -95	C - D	54 -471



04/28/2022

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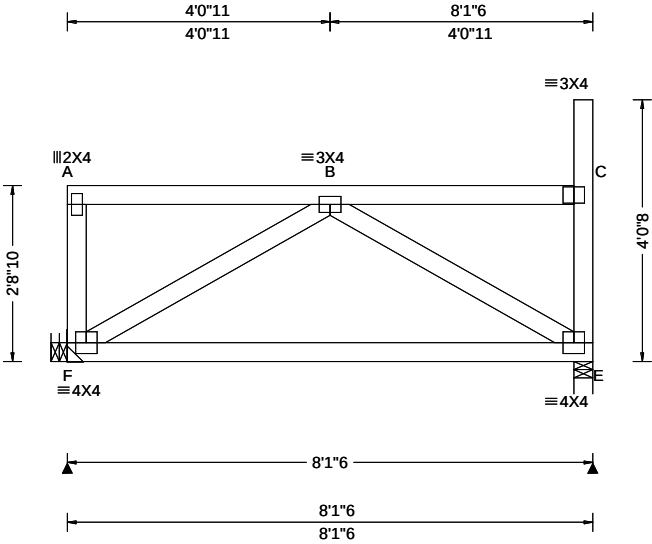
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34428 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T12	Cust: R 9316 JRef:1Xf393160008 T210 DrwNo: 118.22.1352.49487 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.005 B 999 360 VERT(CL): 0.008 B 999 240 HORZ(LL): 0.002 E - - HORZ(TL): 0.004 E - - Creep Factor: 2.0 Max TC CSI: 0.216 Max BC CSI: 0.818 Max Web CSI: 0.203 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				F	487	/-	/-	/229	/43	/92
				E	467	/-	/-	/214	/45	/-
				Wind reactions based on MWFRS						
				F Brg Wid = - Min Req = -						
				E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
				Bearing E is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.32 13.12 3.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

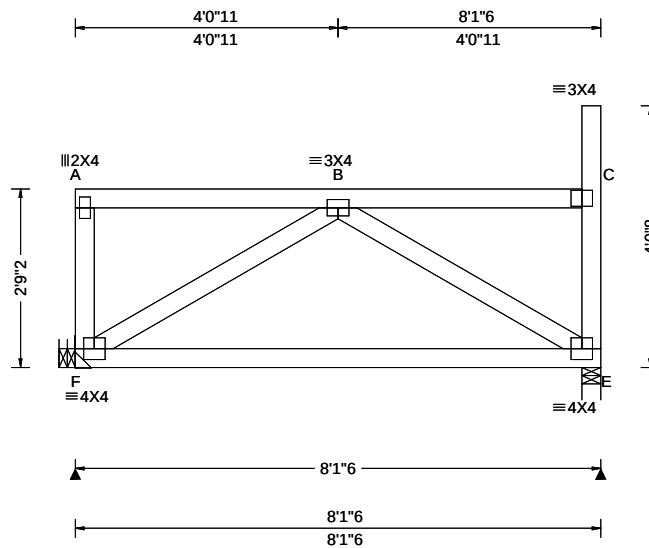


04/28/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 6

SEQN: 34429 /	FLAT	Ply: 1	Job Number: JB-220579R	Cust: R 9316 JRef:1Xf393160008 T126
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 118.22.1352.50663
			Truss Label: T13	/ NDW 04/28/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.005 B 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	F 487 /- /- /229 /44 /91
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	E 467 /- /- /214 /45 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.004 E - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.76 ft	Building Code:	Creep Factor: 2.0	F Brg Wid = - Min Req = -
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.216	E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.817	Bearing E is a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.203	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



04/28/2022

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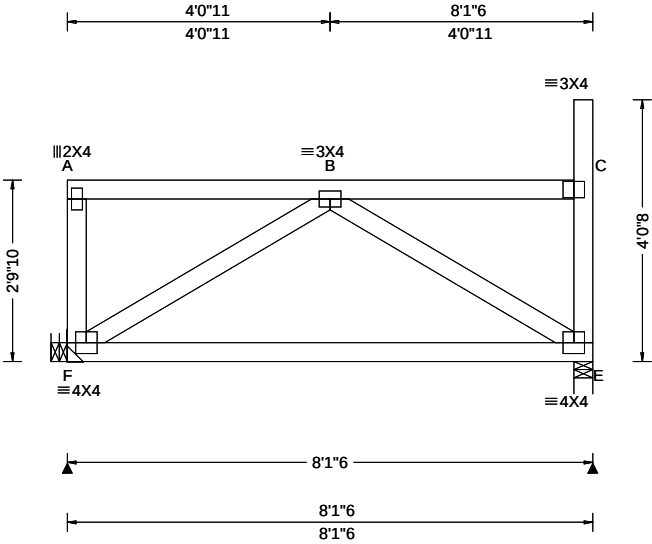
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34521 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T14	Cust: R 9316 JRef:1Xf393160008 T130 DrwNo: 118.22.1352.52044 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.005 B 999 360 VERT(CL): 0.008 B 999 240 HORZ(LL): 0.002 E - - HORZ(TL): 0.004 E - - Creep Factor: 2.0 Max TC CSI: 0.217 Max BC CSI: 0.815 Max Web CSI: 0.203 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				F	487	/-	/-	/229	/44	/91
				E	467	/-	/-	/214	/45	/-
				Wind reactions based on MWFRS						
				F Brg Wid = - Min Req = -						
				E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
				Bearing E is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

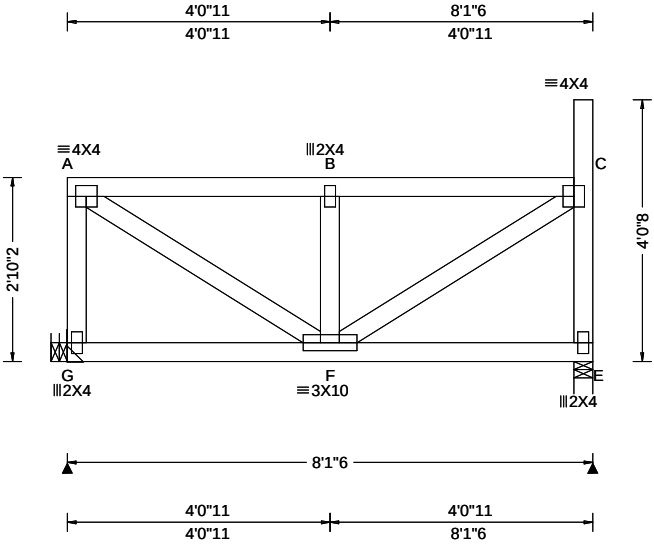
Additional Notes
Truss must be installed as shown with top chord up.



04/28/2022

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SEQN: 34492 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T15	Cust: R 9316 JRef:1Xf393160008 T124 DrwNo: 118.22.1352.48879 / NDW 04/28/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)	
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in loc L/def L/#	VERT(LL): 0.012 B 999 360	Gravity	Loc	R+ / R- / Rh
TCDL: 15.00	Speed: 109 mph	Pf: 15.4	Ce: 1.0	Lu: - Cs: 1.00	VERT(CL): 0.020 B 999 240	HORZ(LL): -0.002 C - -	Non-Gravity	/ Rw / U / RL	
BCLL: 15.00	Enclosure: Closed	Snow Duration: 1.15			HORZ(TL): 0.004 C - -	Creep Factor: 2.0	G	713	-/-/-/165/-
BCDL: 10.00	Risk Category: II				Max TC CSI: 0.240		E	569	-/-/-/108/-
Des Ld: 60.00	EXP: B Kzt: NA				Max BC CSI: 0.306		Wind reactions based on MWFRS		
NCBCLL: 0.00	Mean Height: 21.84 ft				Max Web CSI: 0.178		G	Brg Wid = -	Min Req = -
Soffit: 2.00	TCDL: 5.0 psf						E	Brg Wid = 3.5	Min Req = 1.5 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf						Bearing E is a rigid surface.		
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2						Members not listed have forces less than 375#		
	C&C Dist a: 3.00 ft						Maximum Top Chord Forces Per Ply (lbs)		
	Loc. from endwall: Any						Chords	Tens.Comp.	Chords Tens. Comp.
	GCpi: 0.18						A - B	132 -625	B - C 132 -629
	Wind Duration: 1.60								

Lumber		Maximum Web Forces Per Ply (lbs)	
Top chord: 2x4 SPF #1/#2;		Webs	Tens.Comp.
Bot chord: 2x4 SPF #1/#2;		Webs	Tens. Comp.
Webs: 2x4 SPF #1/#2;		A - G	87 -502
		A - F	725 -153
		F - C	698 -148
		C - E	87 -484

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 25 plf at 0.00 to 25 plf at 8.11
BC: 133 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.20 8.97 2.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

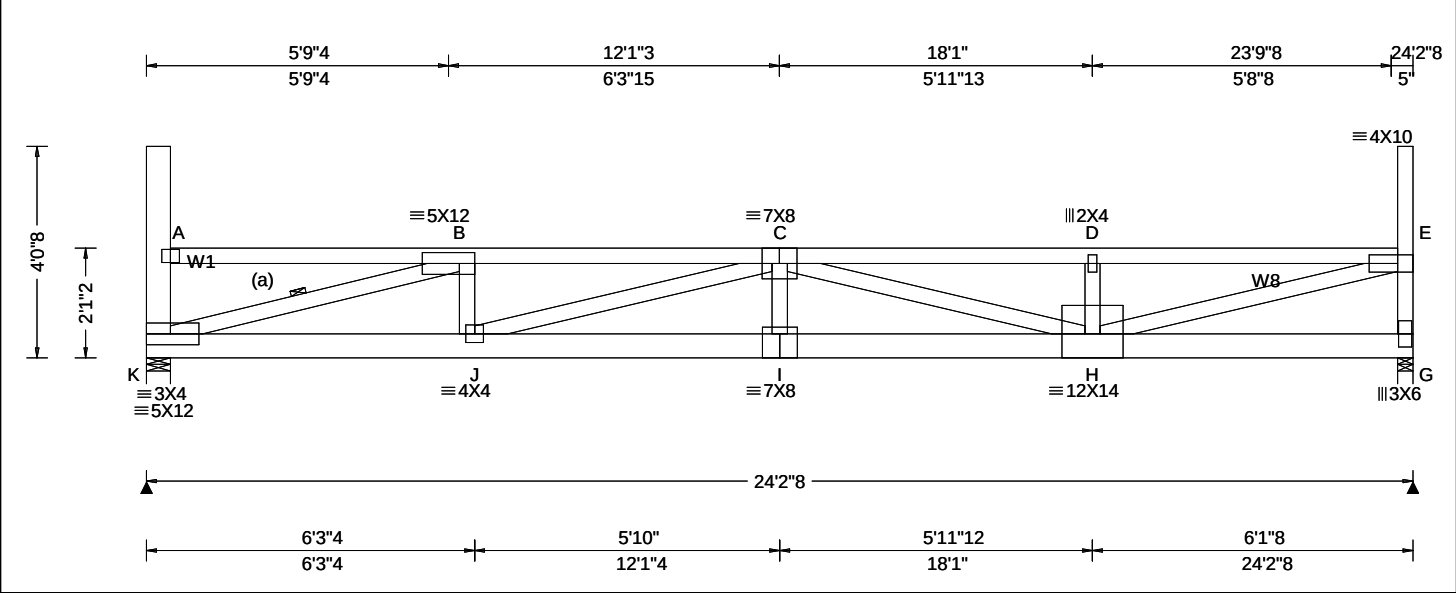


04/28/2022

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SEQN: 34431 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T17	Cust: R 9316 JRef:1Xf393160008 T127 DrwNo: 118.22.1415.54180 / NDW 04/28/2022
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Loading Criteria (psf) TCCL: 20.00 TCDL: 15.00 BCCL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.09 ft TCCL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.376 I 773 360 VERT(CL): 0.644 I 451 240 HORZ(LL): 0.056 A - - HORZ(TL): 0.096 A - - Creep Factor: 2.0 Max TC CSI: 0.909 Max BC CSI: 0.656 Max Web CSI: 0.857 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs) Gravity Loc R+ / R- / Rh / Rw / U / RL K 1420 /- /- /610 /77 /126 G 1432 /- /- /616 /79 /- Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.2 (Truss) G Brg Wid = 3.5 Min Req = 2.2 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 238 -3991 D - E 233 -3969 C - D 233 -3964
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Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x6 SPF 1650f-1.5E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; W8 2x4 SPF 2100f-1.8E;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 3883 -364 I - H 5202 -305 J - I 5202 -305
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Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. K - B 240 -3951 C - H 139 -1288 B - J 648 0 H - E 3997 -251 J - C 147 -1262 E - G 91 -1273
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 23.46 1.95 33.87 4.20 23.92 0.00 23.46 1.95 33.87 4.20 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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Deflection Max JT VERT DEFL: LL: 0.38" DL: 0.27". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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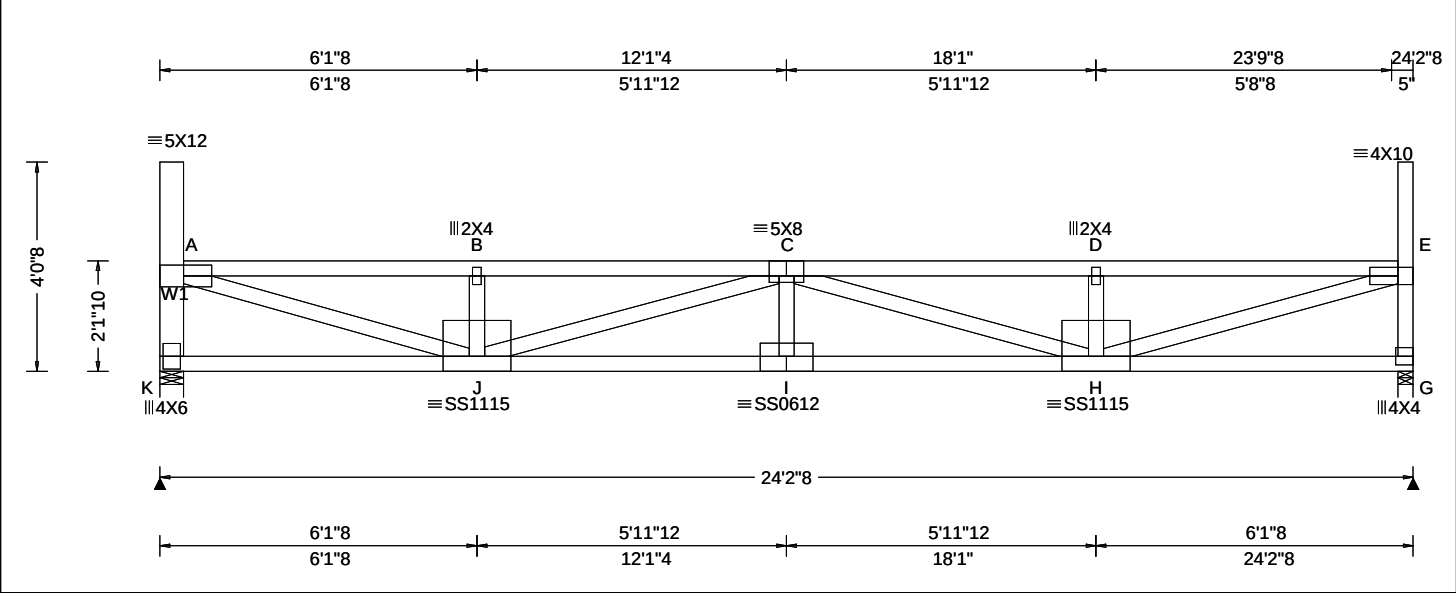
Additional Notes Truss must be installed as shown with top chord up.
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04/28/2022

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Building 6

SEQN: 34432 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T18	Cust: R 9316 JRef:1Xf393160008 T125 DrwNo: 118.22.1352.50211 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.390 I 745 360	K	1421	/-	/-	/610	/78	/127
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.668 I 434 240	G	1432	/-	/-	/616	/80	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.059 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	EXP: B Kzt: NA	Building Code: IBC 2018	HORZ(TL): 0.101 A - -	K Brg Wid = 5.5 Min Req = 1.8 (Truss)						
	Mean Height: 21.14 ft		G Brg Wid = 3.5 Min Req = 1.8 (Truss)							
	TCDL: 5.0 psf		Bearings K & G are a rigid surface.							
	BCDL: 3.0 psf	TPI Std: 2014	Members not listed have forces less than 375#							
	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Maximum Top Chord Forces Per Ply (lbs)							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Chords Tens.Comp. Chords Tens. Comp.							
	Loc. from endwall: Any	Plate Type(s):	A - B 233 -3773 C - D 224 -3779							
	GCpi: 0.18	WAVE, 18SS	B - C 232 -3768 D - E 225 -3784							
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.91 32.49 4.38
23.92 0.00 23.46 1.91 32.49 4.38
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.28". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



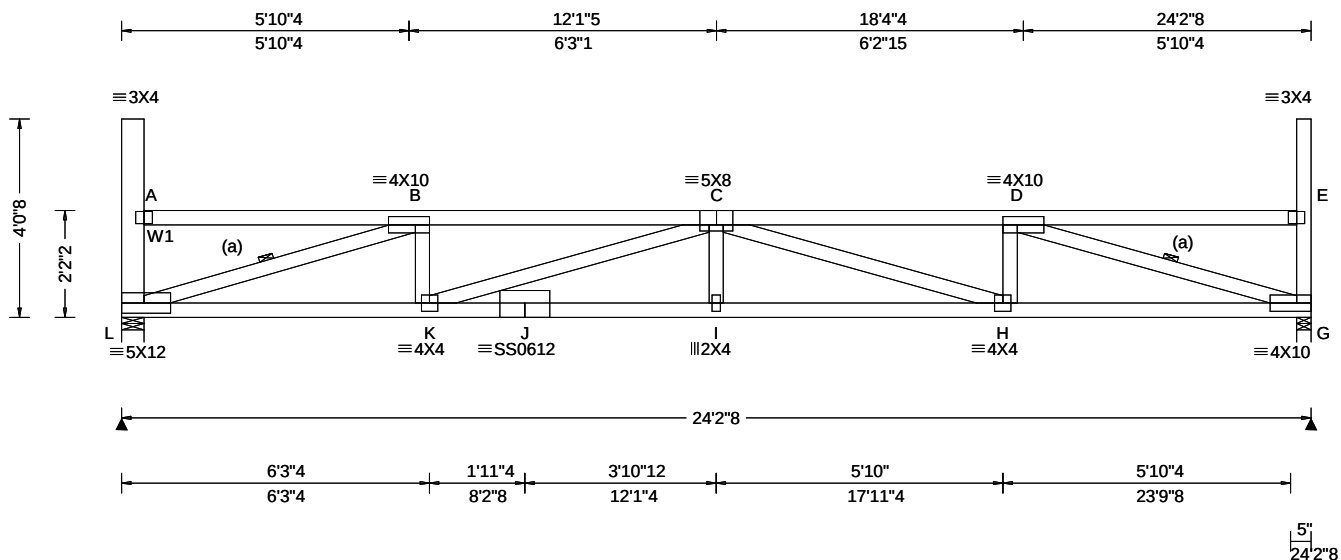
04/28/2022

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Building 6

SEQN: 34433 /	FLAT	Ply: 1	Job Number: JB-220579R	Cust: R 9316 JRef:1Xf393160008 T115
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 118.22.1352.50431
			Truss Label: T19	/ NDW 04/28/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.356 I 815 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.610 I 476 260	L 1420 /- /- /610 /78 /126
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.075 G - -	G 1432 /- /- /616 /80 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.129 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.18 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.629	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.622	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.787	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	B - C 225 - 3716 C - D 216 - 3726
	Wind Duration: 1.60			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.25". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/28/2022

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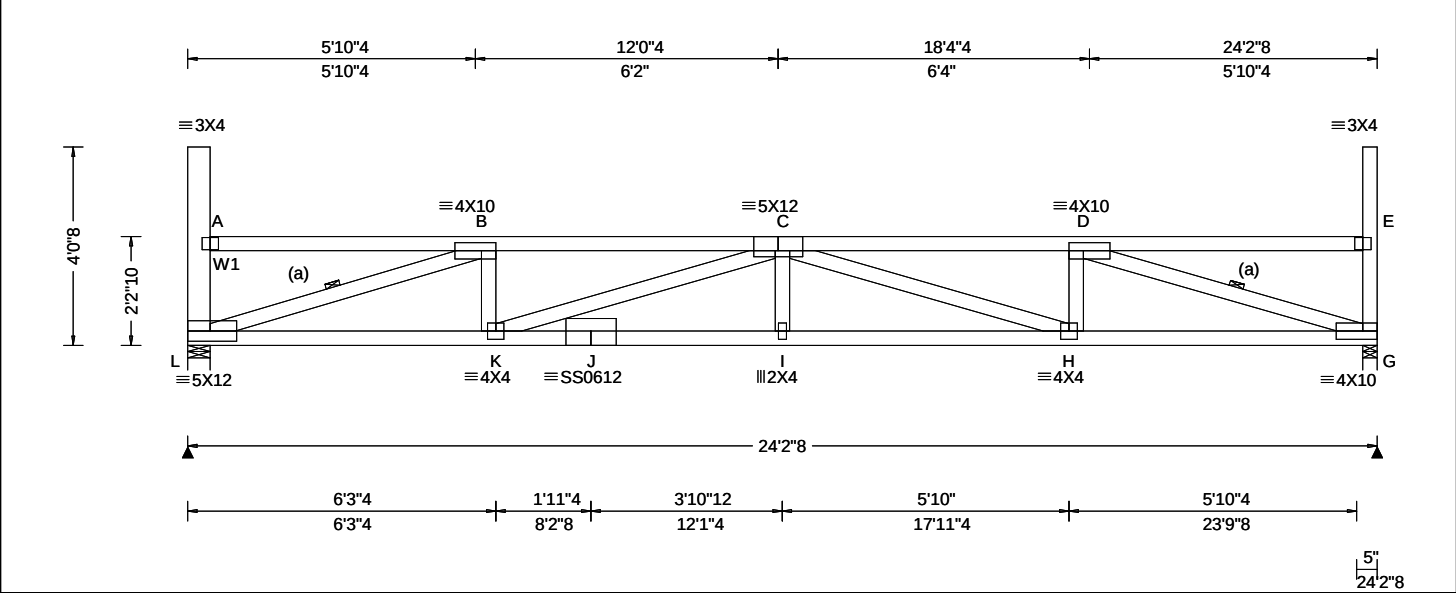
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34434 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T20	Cust: R 9316 JRef:1Xf393160008 T116 DrwNo: 118.22.1352.50188 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.342 I 850 360 VERT(CL): 0.586 I 496 240 HORZ(LL): 0.074 G - - HORZ(TL): 0.126 G - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.610 Max Web CSI: 0.774 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 /- /- /610 /78 /124 G 1432 /- /- /616 /80 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 221 - 3638 C - D 212 - 3648

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.82 29.72 4.79
23.92 0.00 23.46 1.82 29.72 4.79
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

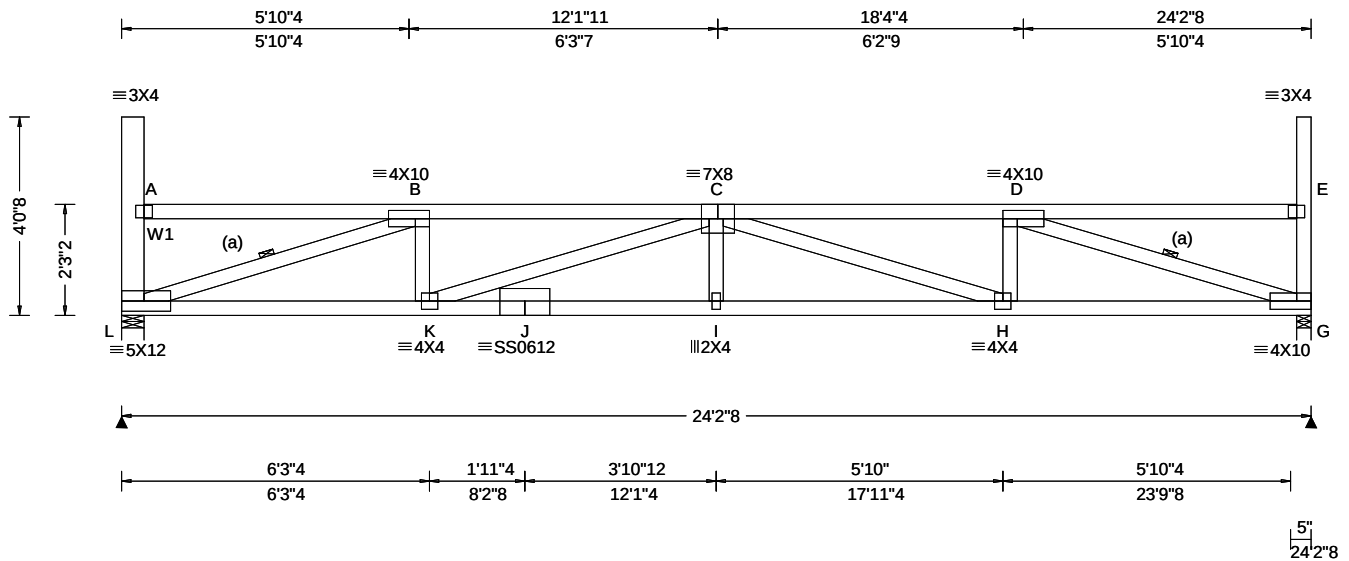
Deflection
Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



04/28/2022 **WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	ALPINE AN ITW COMPANY 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 34435 /	FLAT	Ply: 1	Job Number: JB-220579R	Cust: R 9316 JRef:1Xf393160008 T117
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 118.22.1352.50577
			Truss Label: T21	/ NDW 04/28/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.328 I 886 360	Loc R+ /R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.562 I 517 240	L 1419 /- /- /609 /78 /123
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.072 G - -	G 1431 /- /- /615 /80 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.123 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.26 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.590	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.600	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.761	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	B - C 199 - 3560 C - D 187 - 3569

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.33" DL: 0.23". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



~~04/28/2022~~

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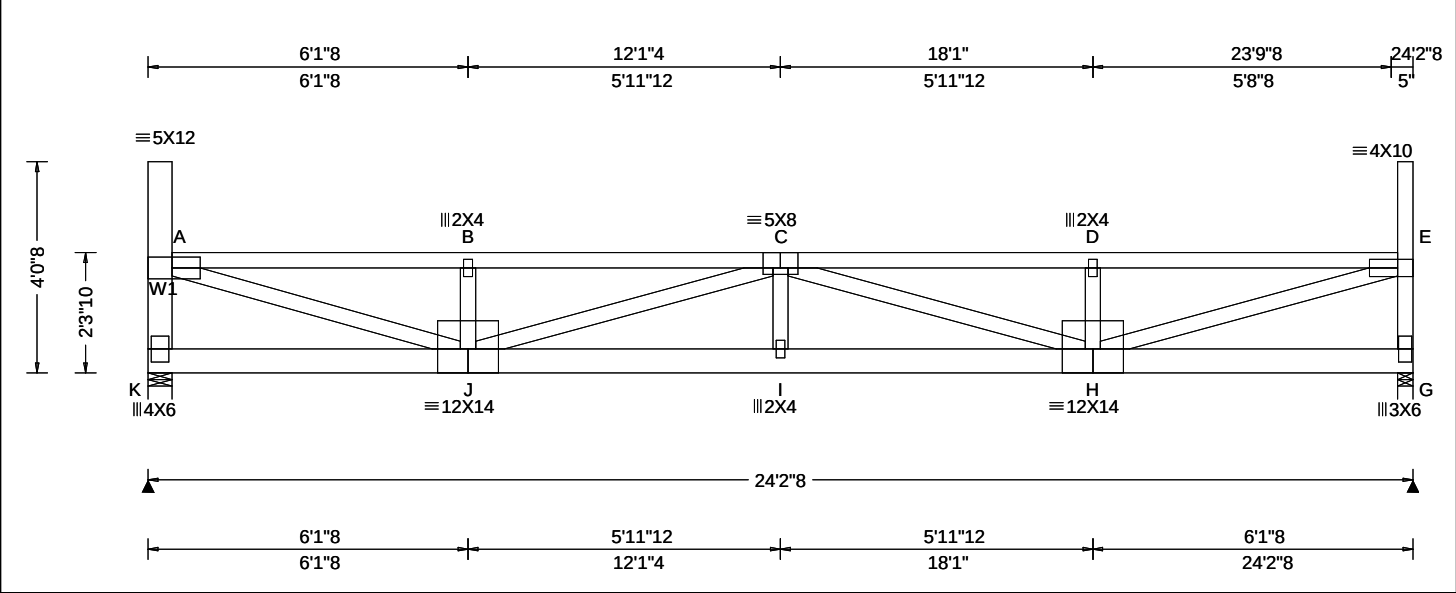
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34436 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T22	Cust: R 9316 JRef:1Xf393160008 T118 DrwNo: 118.22.1352.50991 / NDW 04/28/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)	
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in loc L/defl L/#	Gravity	
TCCL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0		VERT(LL): 0.324 I 896 360	Loc	R+
BCCL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00		VERT(CL): 0.555 I 523 240	/ R-	/ Rh
BCDL:	10.00	Risk Category:	II	Snow Duration: 1.15			HORZ(LL): 0.051 A - -	/ Rw	/ U
Des Ld:	60.00	EXP: B	Kzt: NA				HORZ(TL): 0.088 A - -	/ RL	
NCBCLL:	0.00	Mean Height:	21.30 ft	Building Code:			Creep Factor: 2.0	Non-Gravity	
Soffit:	2.00	TCCL:	5.0 psf	IBC 2018			Max TC CSI: 0.835	K	1421
Load Duration:	1.15	BCDL:	3.0 psf	TPI Std: 2014			Max BC CSI: 0.587	G	1432
Spacing:	24.0 "	MWFRS Parallel Dist:	h/2 to h	Rep Fac: Yes			Max Web CSI: 0.885	Wind reactions based on MWFRS	
		C&C Dist a:	3.00 ft	FT/RT:20(0)/10(0)				K Brg Wid = 5.5 Min Req = 2.2 (Truss)	
		Loc. from endwall:	not in 14.50 ft	Plate Type(s):				G Brg Wid = 3.5 Min Req = 2.2 (Truss)	
		GCp:	0.18	WAVE				Bearings K & G are a rigid surface.	
		Wind Duration:	1.60					Members not listed have forces less than 375#	
								Maximum Top Chord Forces Per Ply (lbs)	
								Chords	Tens.Comp.
								A - B	205 - 3549
								B - C	204 - 3544
								C - D	192 - 3550
								D - E	193 - 3555

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.74 26.95 5.28
23.92 0.00 23.46 1.74 26.95 5.28
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/28/2022

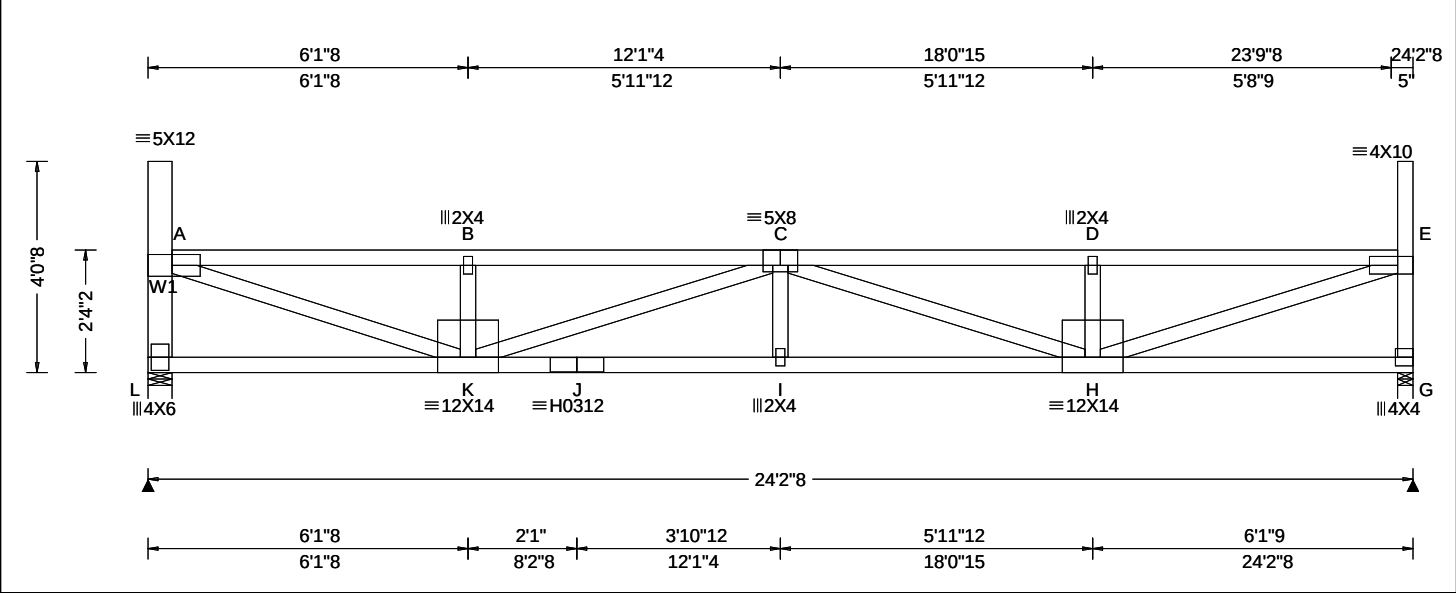
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34437 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T23	Cust: R 9316 JRef:1Xf393160008 T119 DrwNo: 118.22.1352.52090 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.318 I 912 360 VERT(CL): 0.545 I 532 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.092 A - - Creep Factor: 2.0 Max TC CSI: 0.807 Max BC CSI: 0.585 Max Web CSI: 0.853 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 - / - /609 /78 /120 G 1432 - / - /615 /80 - /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 198 - 3403 C - D 184 - 3407 B - C 198 - 3398 D - E 185 - 3412 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4405 - 268 I - H 4405 - 268 J - I 4405 - 268 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 92 - 1278 D - H 76 - 377 A - K 3408 - 213 H - E 3476 - 212 K - C 114 - 1064 E - G 94 - 1297 C - H 111 - 1055

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.70 25.57 5.57
23.92 0.00 23.46 1.70 25.57 5.57
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

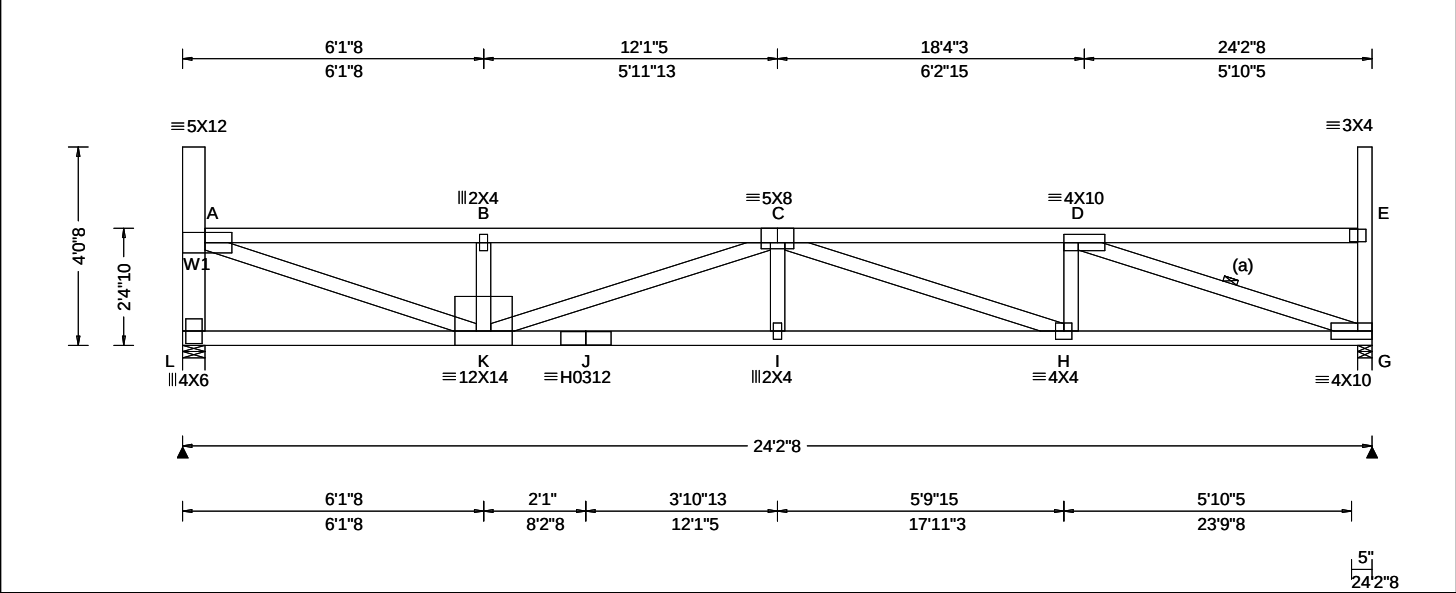


04/28/2022

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SEQN: 34438 / FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T24	Cust: R 9316 JRef:1X1393160008 T120 DrwNo: 118.22.1352.51547 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.299 I 972 360 VERT(CL): 0.512 I 567 240 HORZ(LL): 0.054 G - - HORZ(TL): 0.092 G - - Creep Factor: 2.0 Max TC CSI: 0.764 Max BC CSI: 0.579 Max Web CSI: 0.822 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1421 /- /- /609 /78 /119 G 1432 /- /- /615 /81 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 195 - 3337 C - D 177 - 3365 B - C 194 - 3332

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

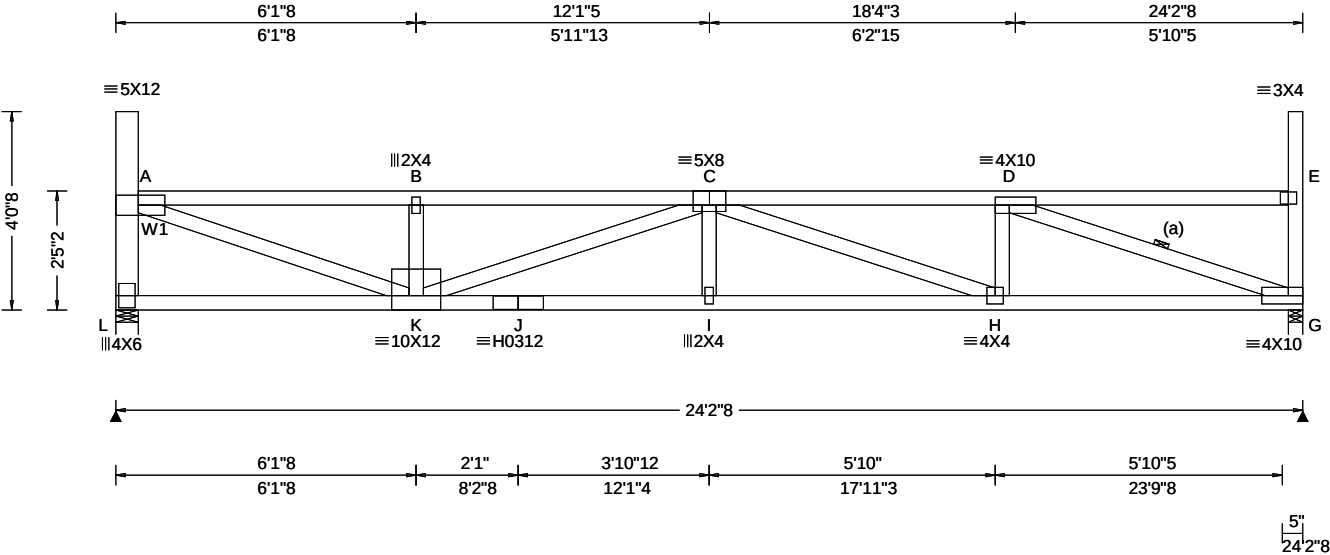


04/28/2022

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SEQN: 34439 / FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T25	Cust: R 9316 JRef:1X1393160008 T121 DrwNo: 118.22.1352.49721 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.288 I 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.493 I 589 240	L	1420	/-	/-	/609	/78	/118
	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.053 G - -	G	1432	/-	/-	/615	/81	/-
	EXP: B Kzt: NA		HORZ(TL): 0.090 G - -	Wind reactions based on MWFRS						
	Mean Height: 21.43 ft		Creep Factor: 2.0	L	Brg Wid = 5.5		Min Req = 1.8 (Truss)			
	TCDL: 5.0 psf		Max TC CSI: 0.729	G	Brg Wid = 3.5		Min Req = 1.8 (Truss)			
	BCDL: 3.0 psf		Max BC CSI: 0.570	Bearings L & G are a rigid surface.						
	MWFRS Parallel Dist: h/2 to h		Max Web CSI: 0.807	Members not listed have forces less than 375#						
C&C Dist a: 3.00 ft			Maximum Top Chord Forces Per Ply (lbs)							
Loc. from endwall: not in 14.50 ft			Chords		Tens.Comp.		Chords		Tens. Comp.	
GCpi: 0.18			A - B	191 - 3273		C - D		174 - 3301		
Wind Duration: 1.60			B - C	191 - 3268						
			VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.61	22.80 5.50
	23.92	0.00	23.46	1.61	22.80 5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.29" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



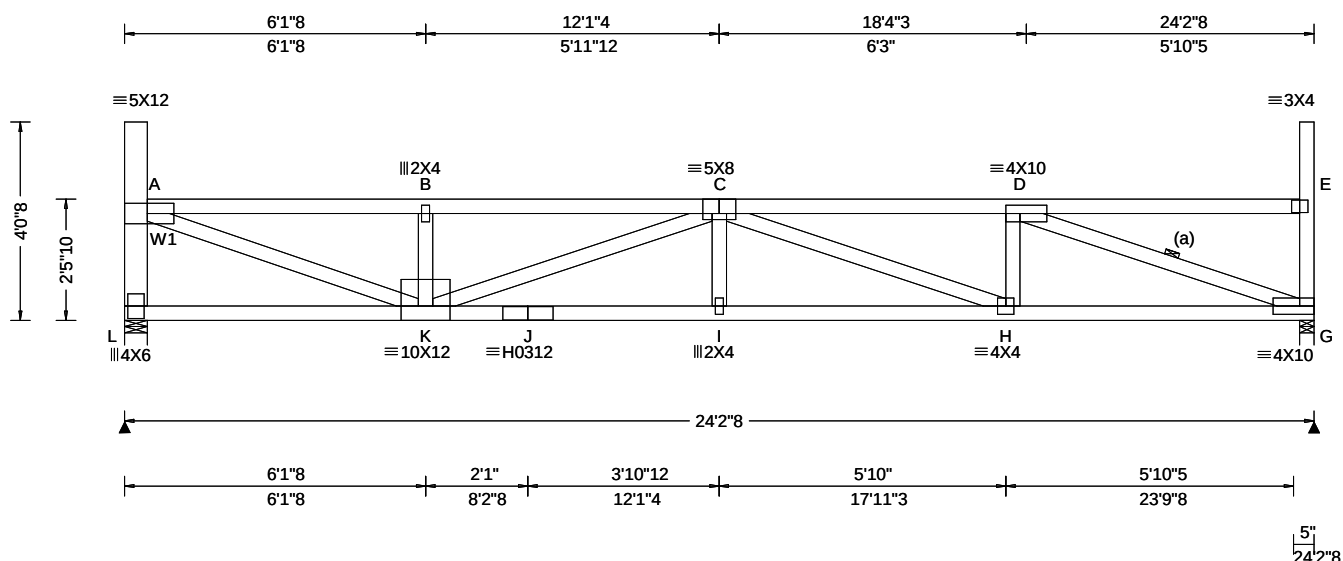
04/28/2022

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Building 6

SEQN: 34440 /	FLAT	Ply: 1	Job Number: JB-220579R	Cust: R 9316 JRef:1Xf393160008 T106
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 118.22.1352.51510
			Truss Label: T26	/ NDW 04/28/2022



Leading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.278 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.476 I 610 240	L 1421 /- /- /609 /78 /116
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.052 G - -	G 1432 /- /- /615 /81 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.089 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.47 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 1.8 (Truss)
Softit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.696	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.562	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.794	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE. HS	VIEW Ver: 21.02.00.1005.17	A - B 189 -3213 C - D 171 -3240

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/28/2022

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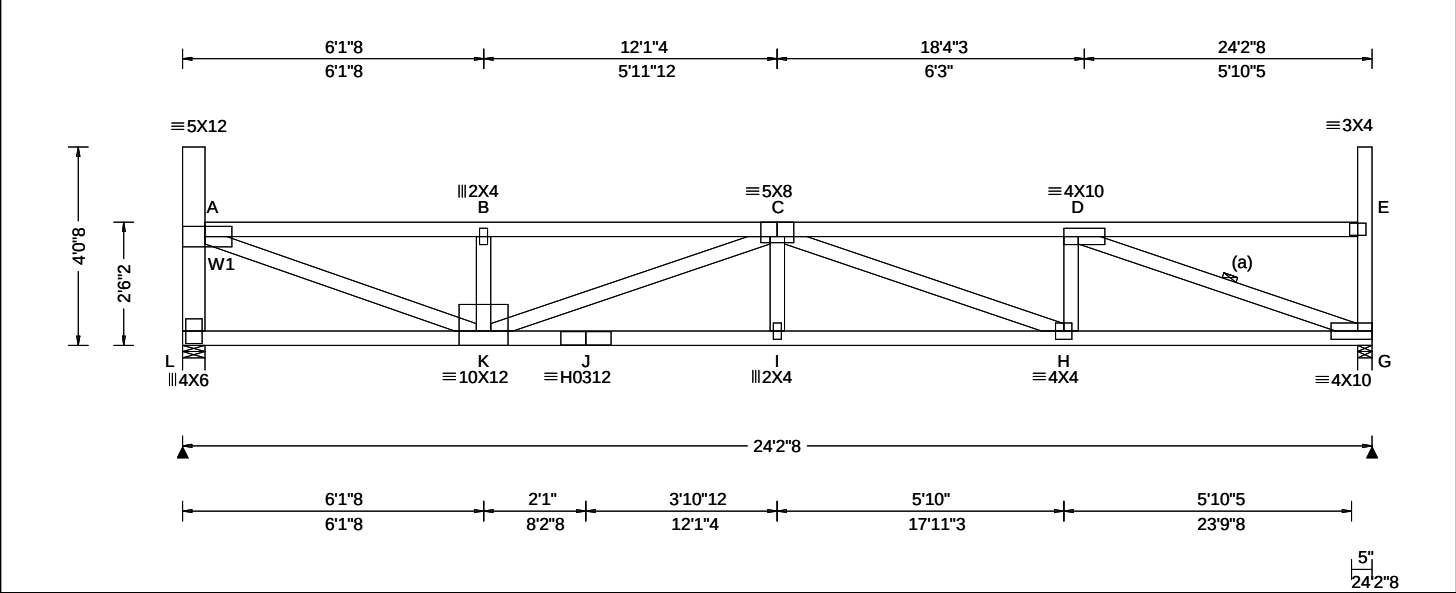
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ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34441 / FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T27	Cust: R 9316 JRef:1X1393160008 T105 DrwNo: 118.22.1352.50925 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.268 I 999 360 VERT(CL): 0.459 I 632 240 HORZ(LL): 0.051 G - - HORZ(TL): 0.087 G - - Creep Factor: 2.0 Max TC CSI: 0.665 Max BC CSI: 0.557 Max Web CSI: 0.781 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 /- /- /608 /79 /115 G 1432 /- /- /615 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 186 - 3154 C - D 168 - 3180 B - C 185 - 3149

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



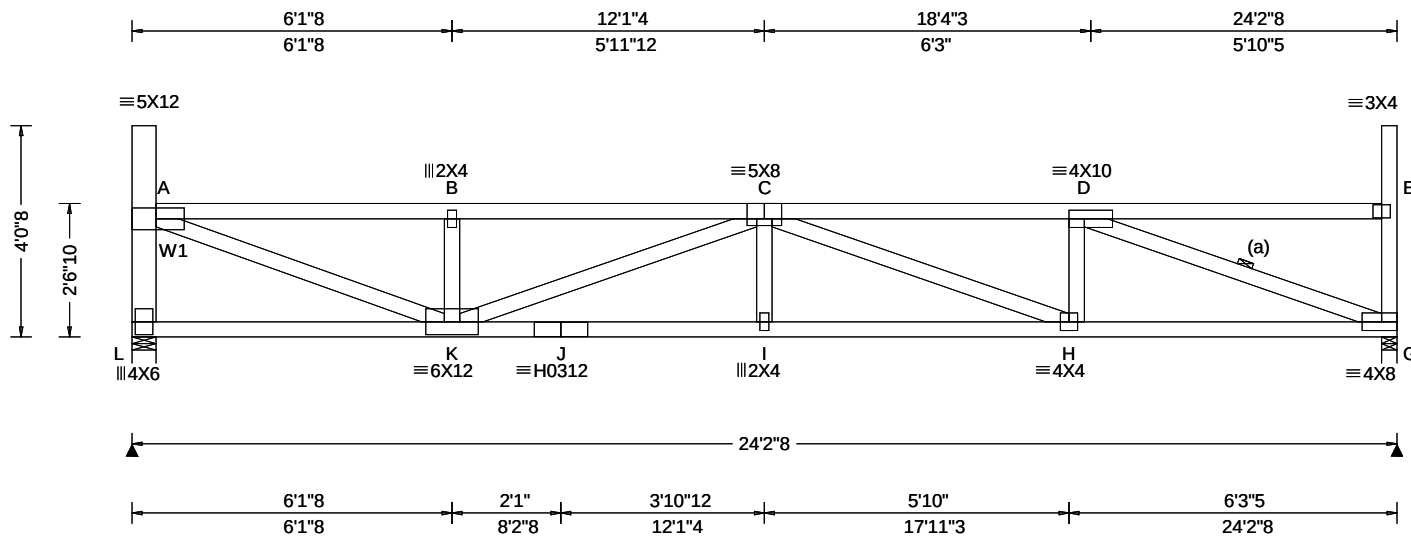
04/28/2022

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Building 6

SEQN: 34442 /	FLAT	Ply: 1	Job Number: JB-220579R	Cust: R 9316 JRef:1Xf393160008 T107
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 118.22.1352.49680
			Truss Label: T28	/ NDW 04/28/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.259 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.443 I 655 240	L 1421 /- /- /608 /79 /113
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.050 G - -	G 1432 /- /- /615 /81 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.086 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.55 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.637	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.551	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.768	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	A - B 183 - 3097 C - D 165 - 3123

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/28/2022

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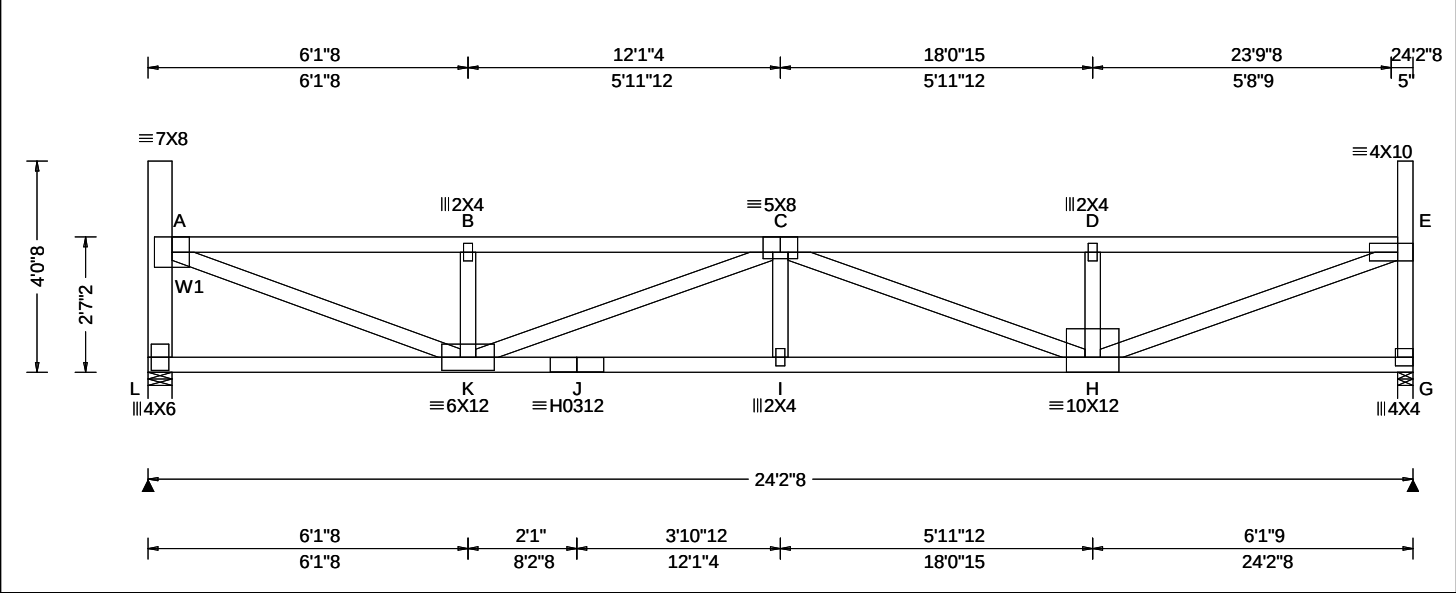
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34443 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T29	Cust: R 9316 JRef:1Xf393160008 T111 DrwNo: 118.22.1352.50625 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.439 I 661 240 HORZ(LL): 0.049 A - - HORZ(TL): 0.083 A - - Creep Factor: 2.0 Max TC CSI: 0.645 Max BC CSI: 0.540 Max Web CSI: 0.771 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 /- /- /608 /79 /112 G 1432 /- /- /614 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 180 -3042 C - D 165 -3045 B - C 180 -3037 D - E 166 -3050

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.45 17.27 4.16
23.92 0.00 23.46 1.45 17.27 4.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

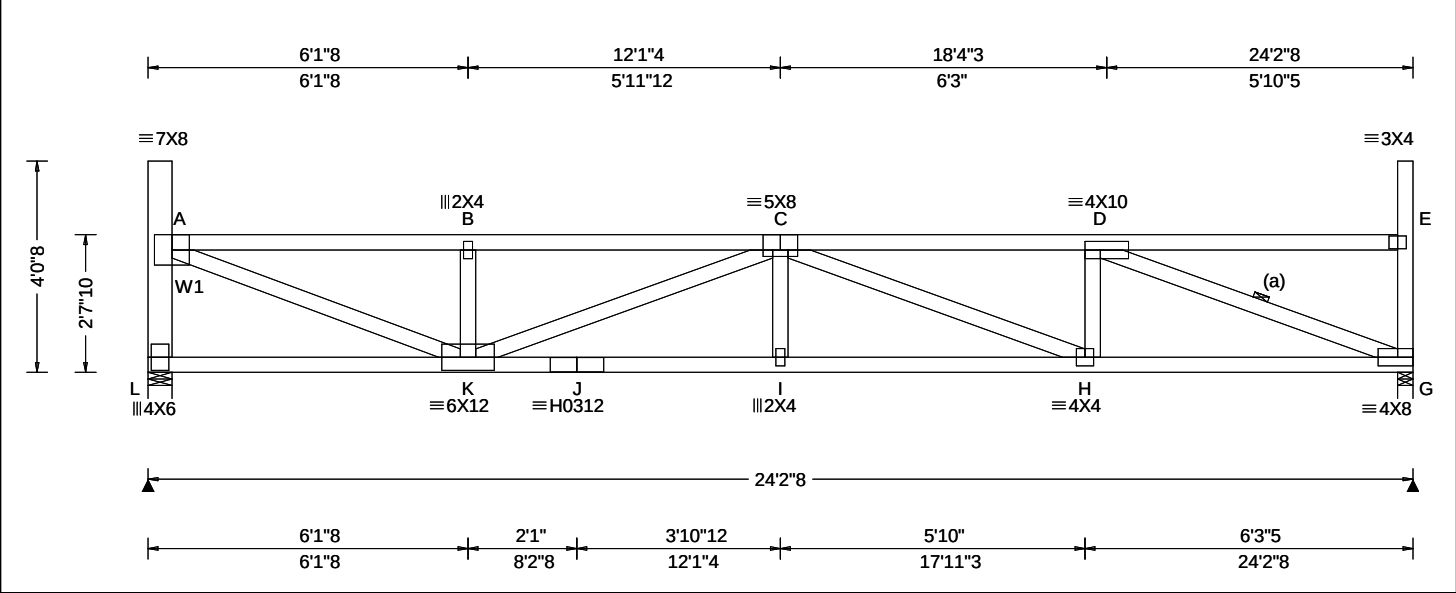


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SEQN: 34444 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T30	Cust: R 9316 JRef:1Xf393160008 T122 DrwNo: 118.22.1352.48938 / NDW 04/28/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.242 I 999 360 VERT(CL): 0.414 I 700 240 HORZ(LL): 0.048 G - - HORZ(TL): 0.083 G - - Creep Factor: 2.0 Max TC CSI: 0.605 Max BC CSI: 0.541 Max Web CSI: 0.745 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				L	1421	/-	/-	/608	/79	/111
				G	1432	/-	/-	/614	/81	/-
				Wind reactions based on MWFRS						
				L Brg Wid = 5.5 Min Req = 1.8 (Truss)						
				G Brg Wid = 3.5 Min Req = 1.8 (Truss)						
				Bearings L & G are a rigid surface.						
				Members not listed have forces less than 375#						
			Maximum Top Chord Forces Per Ply (lbs)							
			Chords		Tens.Comp.		Chords		Tens. Comp.	
			A - B	178 - 2989		C - D		159		-3014
			B - C	177 - 2985						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

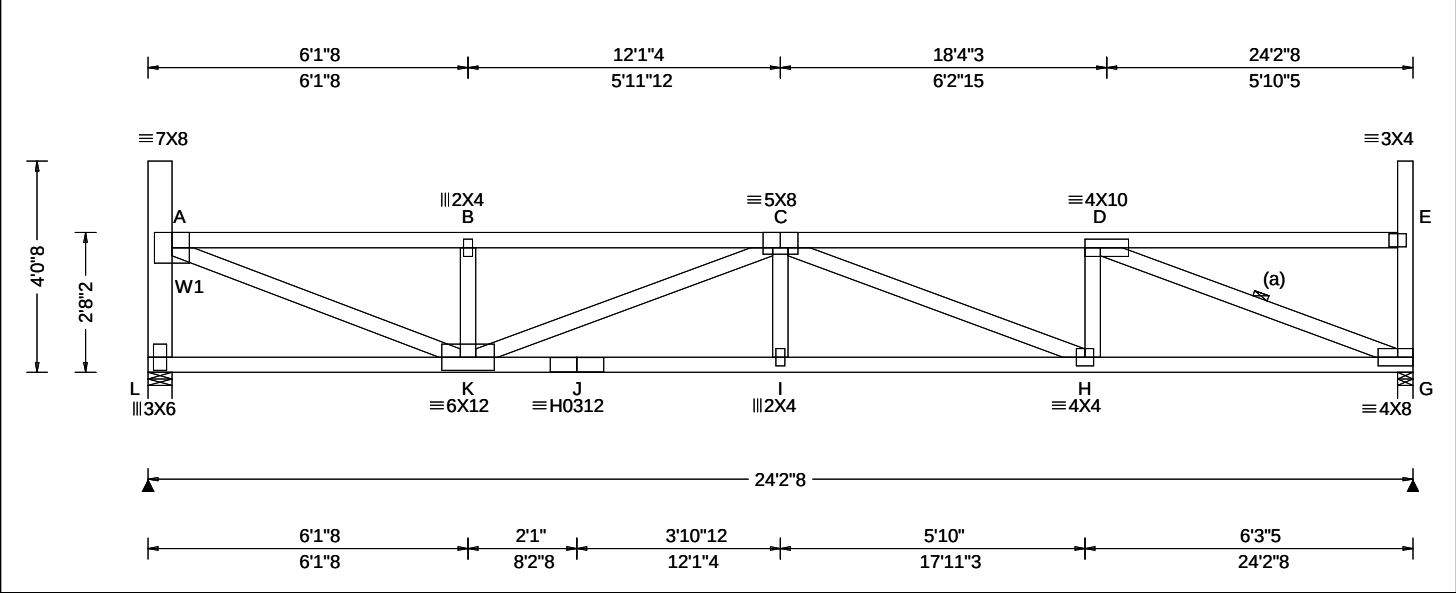
Truss must be installed as shown with top chord up.



04/28/2022

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 34445 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T31	Cust: R 9316 JRef:1Xf393160008 T129 DrwNo: 118.22.1352.52054 / NDW 04/28/2022
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Loading Criteria (psf)	TCLL: 20.00	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.234 I 999 360 VERT(CL): 0.401 I 724 240 HORZ(LL): 0.047 G - - HORZ(TL): 0.081 G - - Creep Factor: 2.0 Max TC CSI: 0.595 Max BC CSI: 0.536 Max Web CSI: 0.733 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
	TCDL: 15.00				Gravity			Non-Gravity			
	BCLL: 15.00				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCDL: 10.00				L	1421	/-	/-	/608	/79	/109
	Des Ld: 60.00				G	1432	/-	/-	/614	/81	/-
	NCBCLL: 0.00				Wind reactions based on MWFRS						
	Soffit: 2.00				L Brg Wid = 5.5 Min Req = 1.8 (Truss)						
	Load Duration: 1.15				G Brg Wid = 3.5 Min Req = 1.8 (Truss)						
					Bearings L & G are a rigid surface.						
					Members not listed have forces less than 375#						
Spacing: 24.0 "	Maximum Top Chord Forces Per Ply (lbs)										
	Chords		Tens.Comp.		Chords		Tens. Comp.				
	A - B	175	- 2938	C - D	156	- 2962					

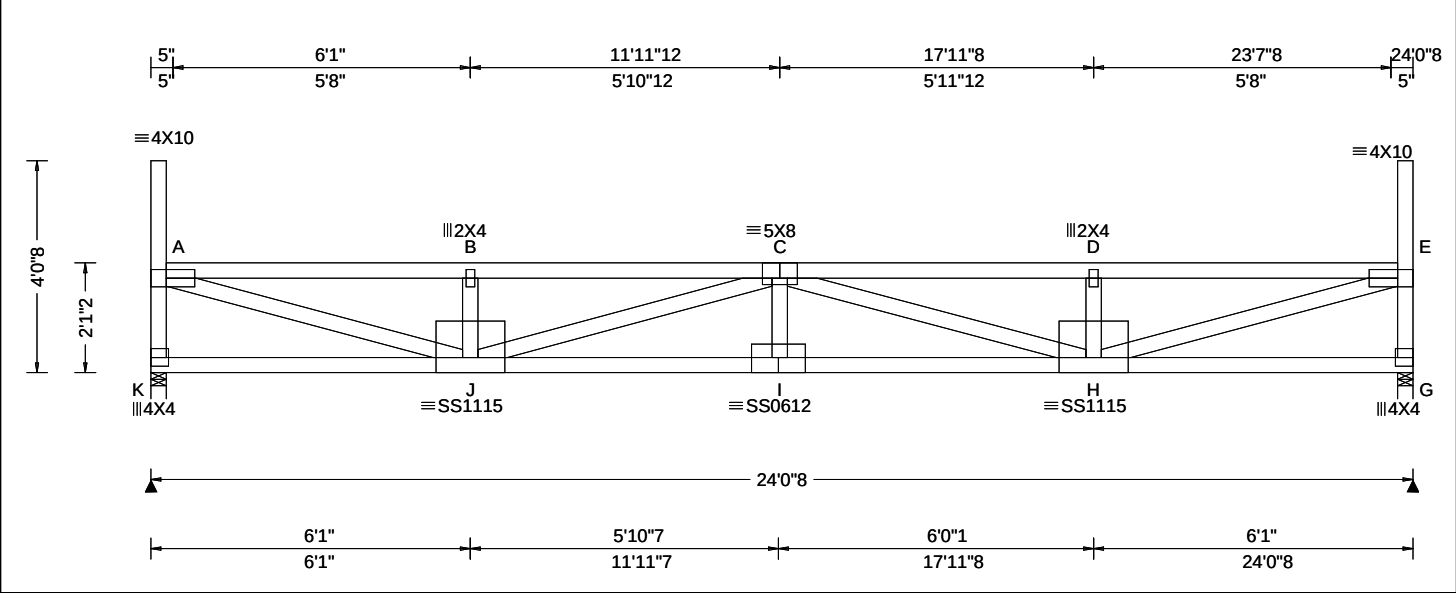
Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	
Deflection Max JT VERT DEFL: LL: 0.23" DL: 0.17". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.	
Additional Notes Truss must be installed as shown with top chord up.	
04/28/2022	

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 6

SEQN: 34446 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T33	Cust: R 9316 JRef:1Xf393160008 T166 DrwNo: 118.22.1352.50707 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.398 I 725 360 VERT(CL): 0.682 I 423 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.100 A - - Creep Factor: 2.0 Max TC CSI: 0.868 Max BC CSI: 0.652 Max Web CSI: 0.944 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1421 /- /- /612 /80 /138 G 1421 /- /- /612 /80 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 239 -3812 C - D 238 -3811 B - C 238 -3807 D - E 239 -3816

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. J - I 4930 -302 I - H 4930 -302
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.95 33.87 4.20 23.75 0.00 23.46 1.95 33.87 4.20 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. K - A 94 -1285 C - H 138 -1169 A - J 3844 -242 H - E 3849 -244 J - C 142 -1174 E - G 94 -1285
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Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	Deflection Max JT VERT DEFL: LL: 0.40" DL: 0.28". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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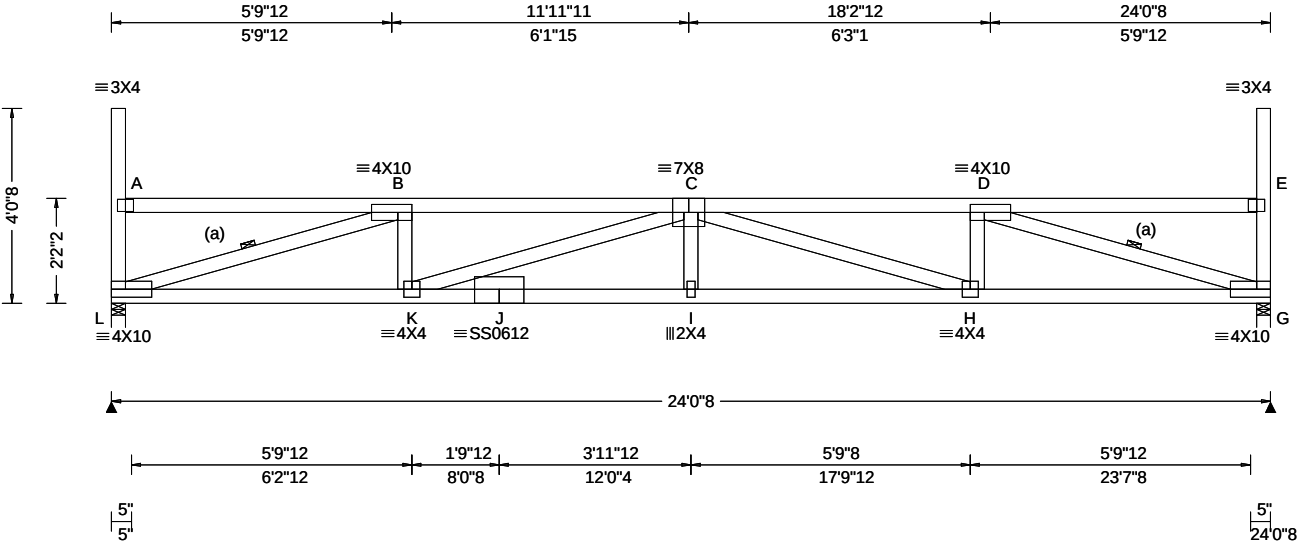
Additional Notes Truss must be installed as shown with top chord up.	
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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34448 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T35	Cust: R 9316 JRef:1Xf393160008 T156 DrwNo: 118.22.1352.50376 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity						
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(LL): 0.346 I	832	360				
	BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	VERT(CL): 0.594 I	486	240				
	Des Ld: 60.00	EXP: B Kzt: NA		HORZ(LL): 0.074 G	-	-				
	NCBCLL: 0.00	Mean Height: 21.18 ft		HORZ(TL): 0.126 G	-	-				
	Soffit: 2.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	Wind reactions based on MWFRS					
	Load Duration: 1.15	BCDL: 3.0 psf	IBC 2018	Max TC CSI: 0.608	L	Brg Wid = 3.5	Min Req = 1.8 (Truss)			
	Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.612	G	Brg Wid = 3.5	Min Req = 1.8 (Truss)			
	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.770	Bearings L & G are a rigid surface.						
	Loc. from endwall: Any	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#						
	GCpi: 0.18	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)						
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	Chords	Tens.Comp.	Chords	Tens. Comp.			
				B - C	225 - 3672	C - D	225 - 3671			

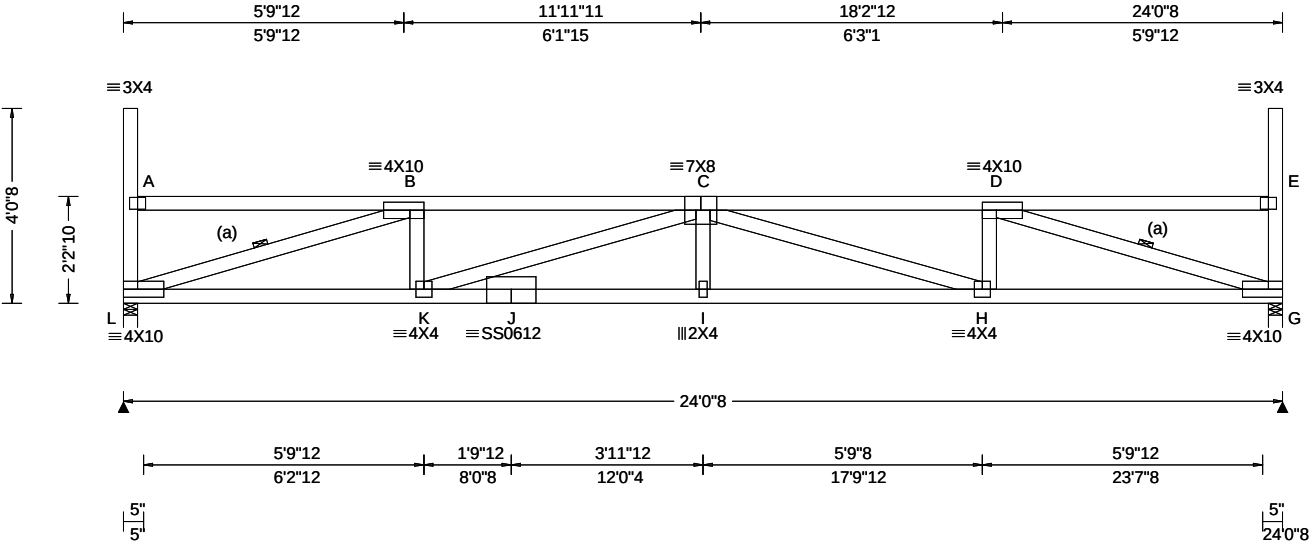
Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs)					
	Chords		Tens.Comp.		Chords Tens. Comp.	
	L - K		3569 -350		I - H 4710 -291	
	K - J		4710 -291		H - G 3568 -194	
J - I		4710 -291				
Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Web Forces Per Ply (lbs)					
	Webs		Tens.Comp.		Webs Tens. Comp.	
L - B		225 -3694		C - H 134 -1093		
B - K		673 -1		H - D 672 -1		
K - C		135 -1092		D - G 225 -3693		
Loading Drifting snow load has been considered for only in plane loading as follows:						
	Location	Lu1	Lu2	Height	Pd	W
0.29		0.00	23.46	1.86	31.10	4.58



04/28/2022

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SEQN: 34449 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T36	Cust: R 9316 JRef:1Xf393160008 T152 DrwNo: 118.22.1352.51466 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.332 I 868 360 VERT(CL): 0.570 I 506 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.123 G - - Creep Factor: 2.0 Max TC CSI: 0.588 Max BC CSI: 0.603 Max Web CSI: 0.757 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1420 /- /- /612 /80 /134 G 1420 /- /- /612 /80 /- Non-Gravity L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Wind reactions based on MWFRS Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 221 - 3595 C - D 221 - 3594

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3494 - 344 I - H 4610 - 287 K - J 4610 - 287 H - G 3493 - 192 J - I 4610 - 287
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.82 29.72 4.79 23.75 0.00 23.46 1.82 29.72 4.79 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 221 - 3624 C - H 131 - 1071 B - K 673 - 1 H - D 672 - 1 K - C 132 - 1070 D - G 221 - 3623

Deflection
Max JT VERT DEFL: LL: 0.33" DL: 0.24". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

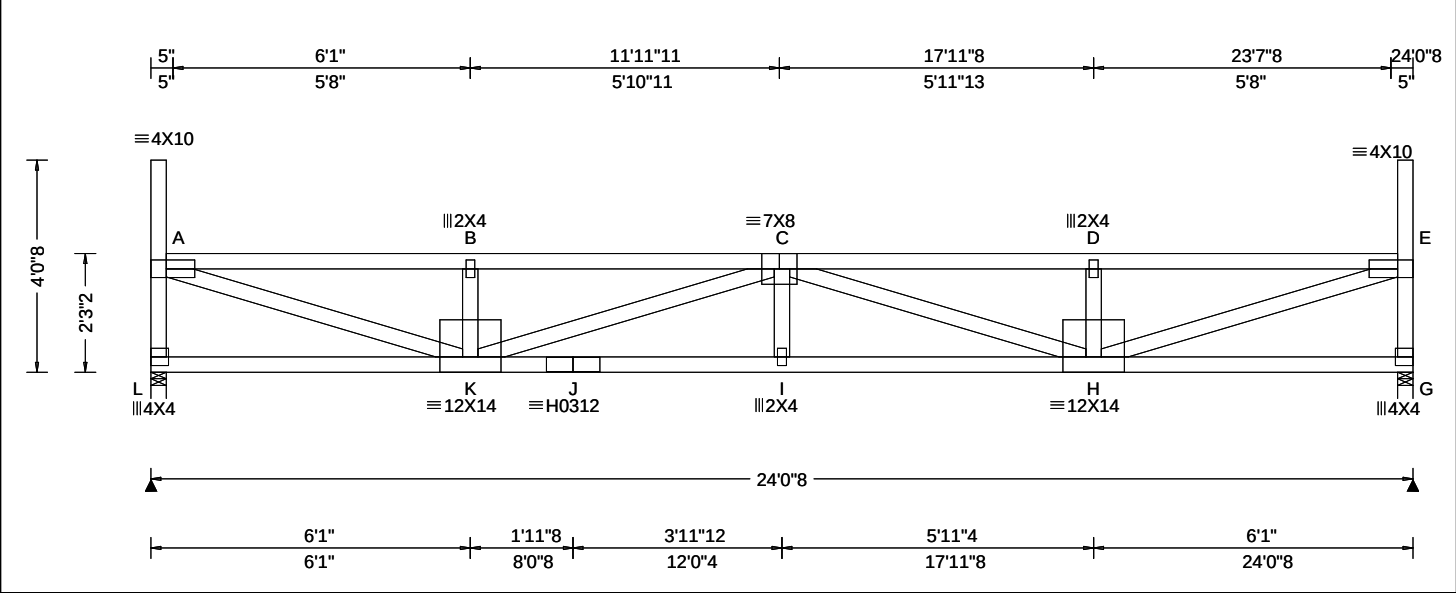
04/28/2022

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34450 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T37	Cust: R 9316 JRef:1Xf393160008 T160 DrwNo: 118.22.1352.52134 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.336 I 858 360 VERT(CL): 0.576 I 500 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.093 A - - Creep Factor: 2.0 Max TC CSI: 0.812 Max BC CSI: 0.594 Max Web CSI: 0.872 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1420 /- /- /612 /80 /133 G 1420 /- /- /612 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 199 - 3499 C - D 198 - 3493 B - C 198 - 3494 D - E 198 - 3498

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4514 - 281 I - H 4514 - 281 J - I 4514 - 281
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.78 28.34 5.03 23.75 0.00 23.46 1.78 28.34 5.03 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 94 - 1286 C - H 123 - 1076 A - K 3554 - 220 H - E 3553 - 221 K - C 127 - 1075 E - G 94 - 1286
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Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	Deflection Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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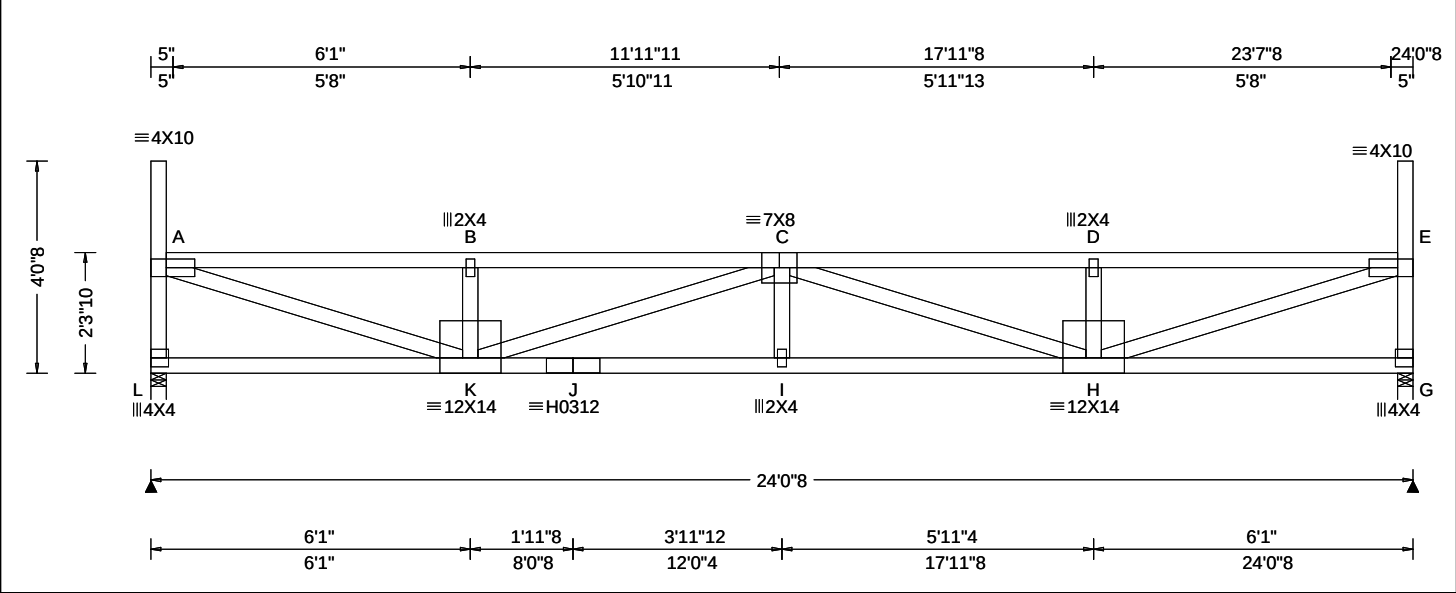
Additional Notes Truss must be installed as shown with top chord up.	
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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org	04/28/2022
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Building 6

SEQN: 34451 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T38	Cust: R 9316 JRef:1Xf393160008 T162 DrwNo: 118.22.1352.51223 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.323 I 893 360	L	1420	/-	/-	/612	/80	/132
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.554 I 521 240	G	1420	/-	/-	/612	/80	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.053 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.091 A - -	L	Brg Wid = 3.5 Min Req = 1.8 (Truss)					
NCBCLL: 0.00	Mean Height: 21.30 ft	Building Code:	Creep Factor: 2.0	G	Brg Wid = 3.5 Min Req = 1.8 (Truss)					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.799	Bearings L & G are a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.585	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.856	Maximum Top Chord Forces Per Ply (lbs)						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Chords	Tens.Comp.		Chords	Tens. Comp.		
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		A - B	195	-3429	C - D	194	-3423	
	GCpi: 0.18		VIEW Ver: 21.02.00.1005.17	B - C	194	-3423	D - E	195	-3428	
	Wind Duration: 1.60	WAVE, HS								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.74 26.95 5.28
23.75 0.00 23.46 1.74 26.95 5.28
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

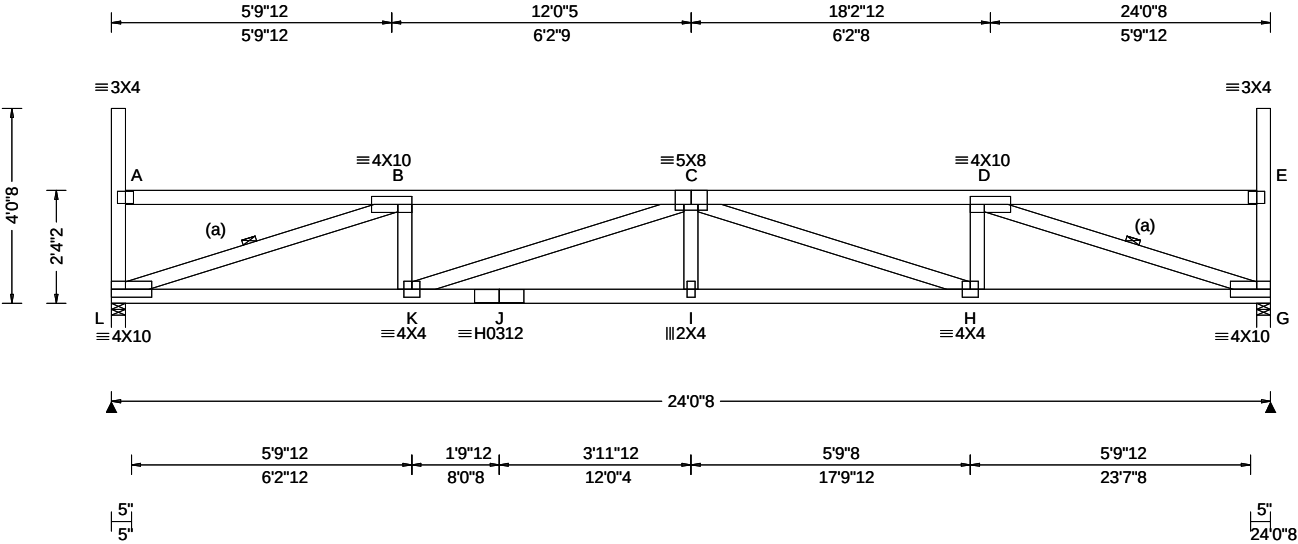
Truss must be installed as shown with top chord up.



04/28/2022

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SEQN: 34452 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T39	Cust: R 9316 JRef:1X1393160008 T158 DrwNo: 118.22.1352.51424 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.296 I 975 360 VERT(CL): 0.507 I 569 240 HORZ(LL): 0.068 G - - HORZ(TL): 0.116 G - - Creep Factor: 2.0 Max TC CSI: 0.542 Max BC CSI: 0.578 Max Web CSI: 0.723 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /612 /81 /131 G 1422 /- /- /612 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 188 -3386 C - D 189 -3384

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

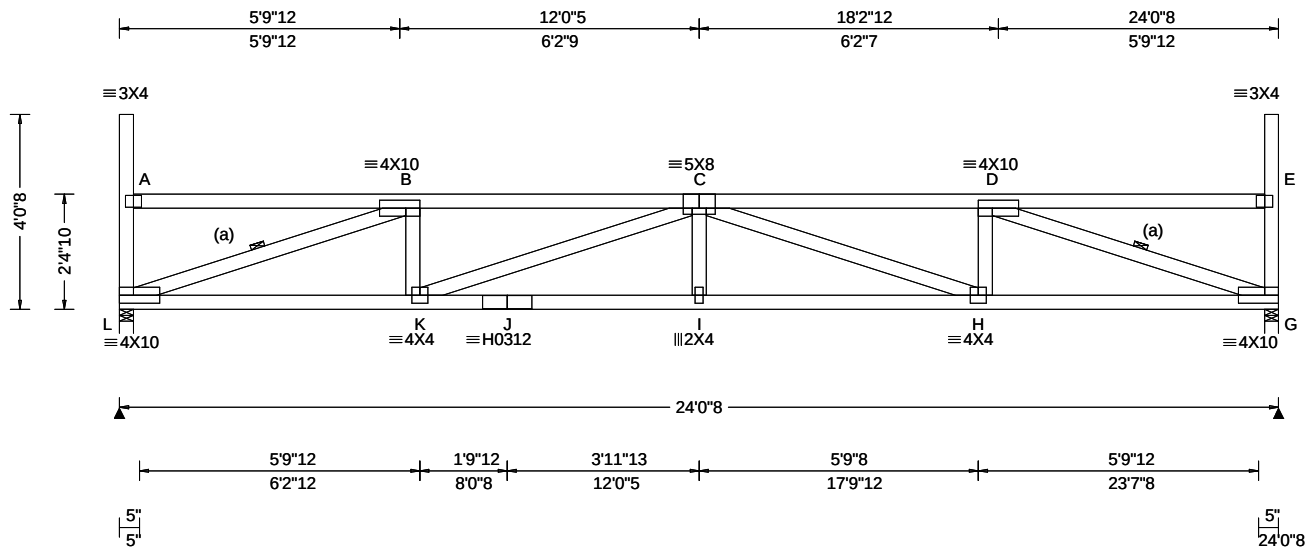
Truss must be installed as shown with top chord up.



04/28/2022

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SEQN: 34453 / FROM:	FLAT	Ply: 1 Qty: 2	Job Number: JB-220579R Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T40	Cust: R 9316 JRef: 1Xf393160008 T155 DrwNo: 118.22.1352.50169 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.285 I 999 360	Loc R+ /R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.488 I 590 240	L 1422 /- /- /612 /81 /129
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.066 G - -	G 1422 /- /- /612 /81 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.114 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.39 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.529	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.571	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.713	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	B - C 185 - 3320 C - D 185 - 3319

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



04/28/2022

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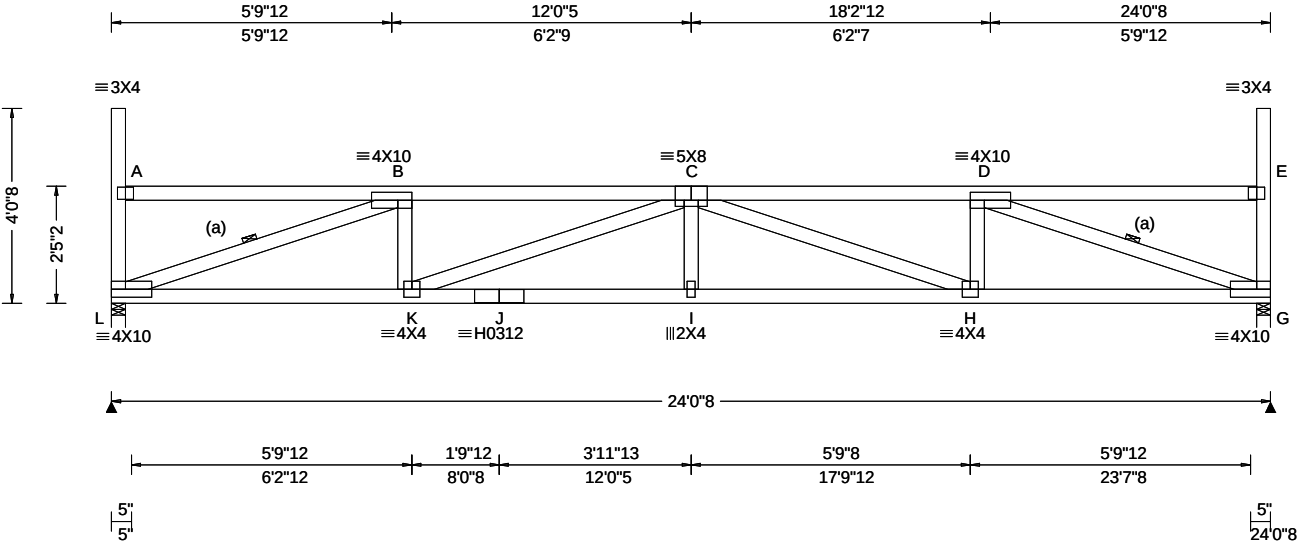
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBCA: sbaccomponents.com; ICC: iccsafe.org; AWC: awc.org



ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34454 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T41	Cust: R 9316 JRef:1Xf393160008 T151 DrwNo: 118.22.1352.50626 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.275 I 999 360 VERT(CL): 0.471 I 612 240 HORZ(LL): 0.065 G - - HORZ(TL): 0.112 G - - Creep Factor: 2.0 Max TC CSI: 0.516 Max BC CSI: 0.565 Max Web CSI: 0.703 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /81 /128 G 1422 /- /- /611 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 182 -3257 C - D 182 -3255

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

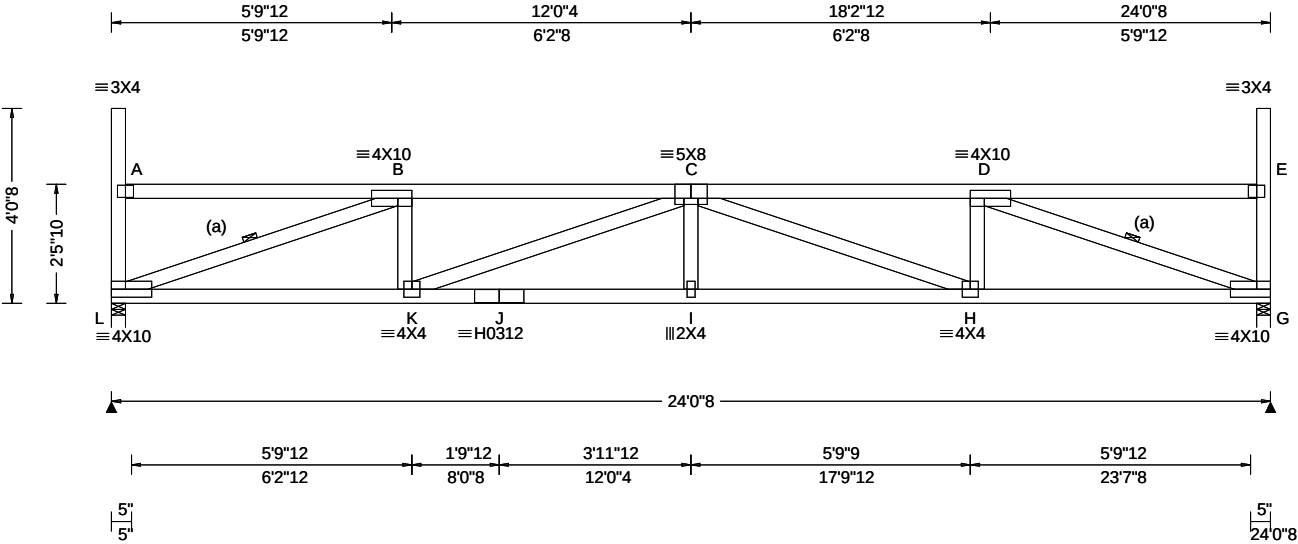


04/28/2022

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SEQN: 34455 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T42	Cust: R 9316 JRef:1Xf393160008 T164 DrwNo: 118.22.1352.50826 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.265 I 999 360 VERT(CL): 0.454 I 635 240 HORZ(LL): 0.064 G - - HORZ(TL): 0.110 G - - Creep Factor: 2.0 Max TC CSI: 0.510 Max BC CSI: 0.559 Max Web CSI: 0.693 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /81 /127 G 1422 /- /- /611 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 179 -3196 C - D 179 -3195

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3106 -294 I - H 4096 -265 K - J 4096 -265 H - G 3105 -182 J - I 4096 -265
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Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 202 -3266 C - H 108 -963 B - K 675 0 H - D 674 0 K - C 109 -962 D - G 201 -3265
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.57 21.42 5.16 23.75 0.00 23.46 1.57 21.42 5.16 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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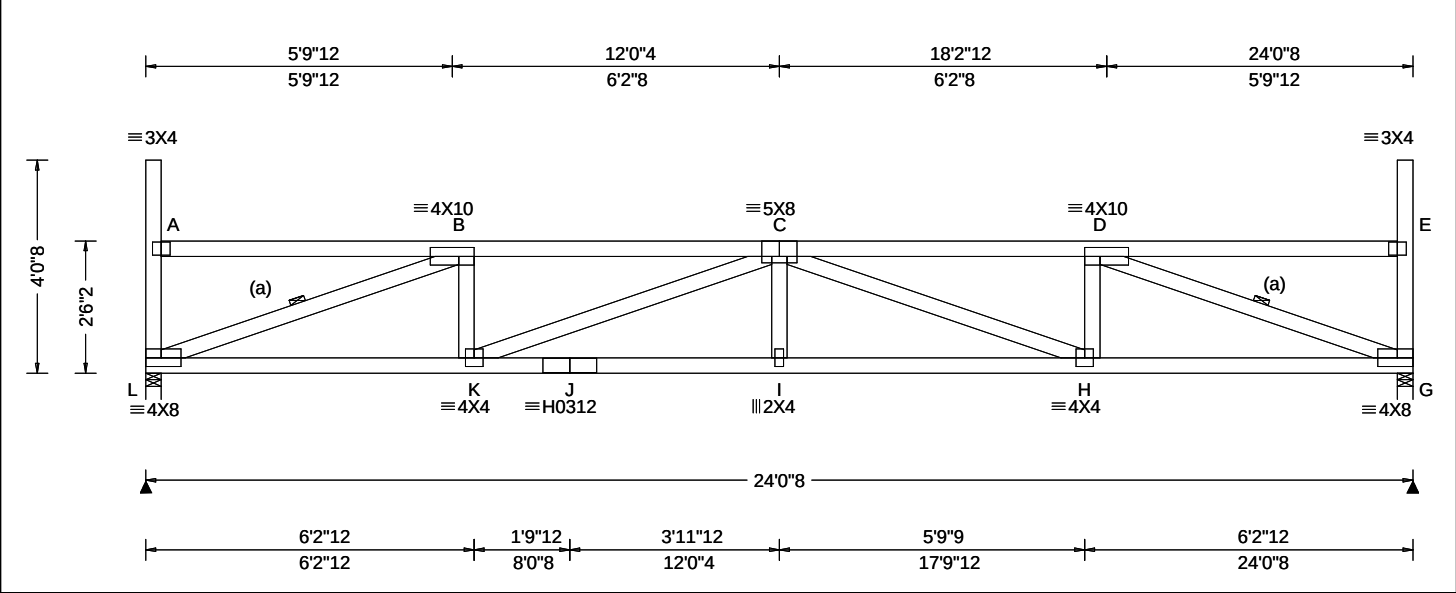
Deflection Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.
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SEQN: 34456 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T43	Cust: R 9316 JRef:1Xf393160008 T161 DrwNo: 118.22.1352.50827 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.438 I 658 240 HORZ(LL): 0.063 G - - HORZ(TL): 0.108 G - - Creep Factor: 2.0 Max TC CSI: 0.507 Max BC CSI: 0.553 Max Web CSI: 0.684 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /81 /126 G 1422 /- /- /611 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 176 - 3137 C - D 177 - 3136

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Chords Tens.Comp. Chords Tens. Comp. L - K 3049 - 289 I - H 4020 - 261 K - J 4020 - 261 H - G 3048 - 180 J - I 4020 - 261

Bracing	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Webs Tens.Comp. Webs Tens. Comp. L - B 199 - 3213 C - H 105 - 947 B - K 675 0 H - D 674 0 K - C 106 - 946 D - G 198 - 3212

Loading
Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.53 20.04 4.83 23.75 0.00 23.46 1.53 20.04 4.83 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

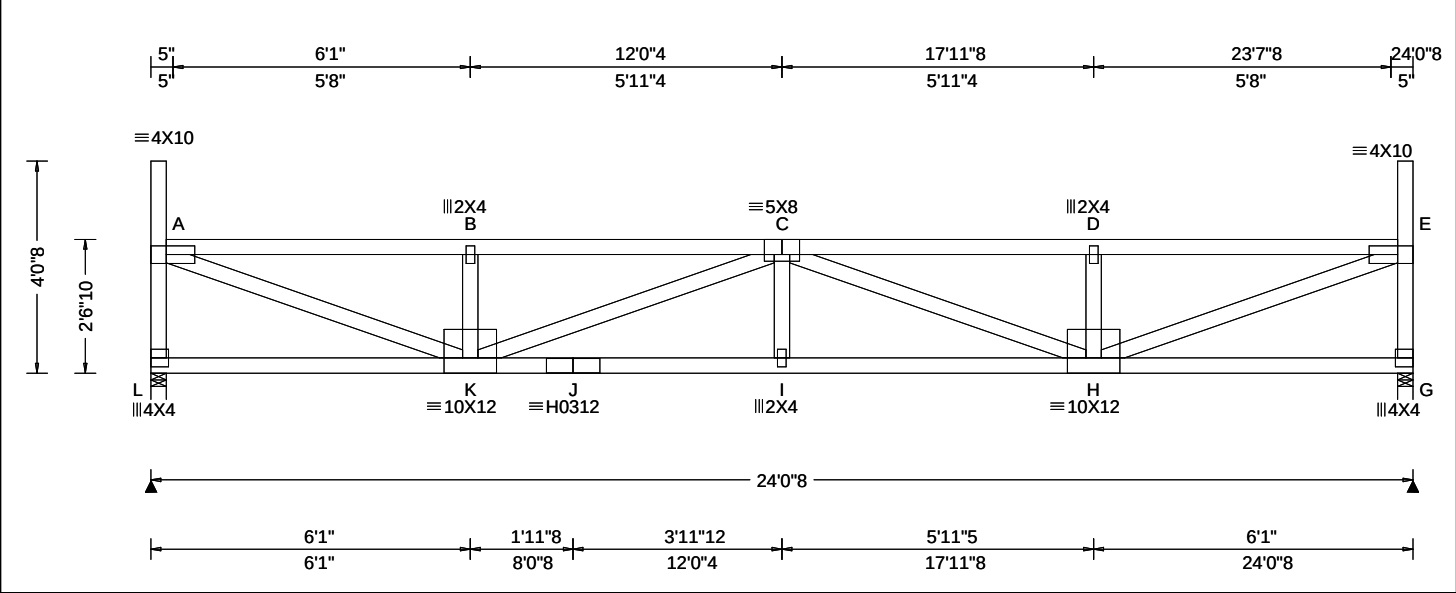


04/28/2022

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Building 6

SEQN: 34457 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T44	Cust: R 9316 JRef:1Xf393160008 T143 DrwNo: 118.22.1352.50540 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.55 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.260 I 999 360 VERT(CL): 0.445 I 647 240 HORZ(LL): 0.048 A - - HORZ(TL): 0.082 A - - Creep Factor: 2.0 Max TC CSI: 0.642 Max BC CSI: 0.540 Max Web CSI: 0.774 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /82 /125 G 1422 /- /- /611 /82 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 178 -3063 C - D 177 -3057 B - C 177 -3058 D - E 178 -3062

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.49 18.65 4.50
23.75 0.00 23.46 1.49 18.65 4.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



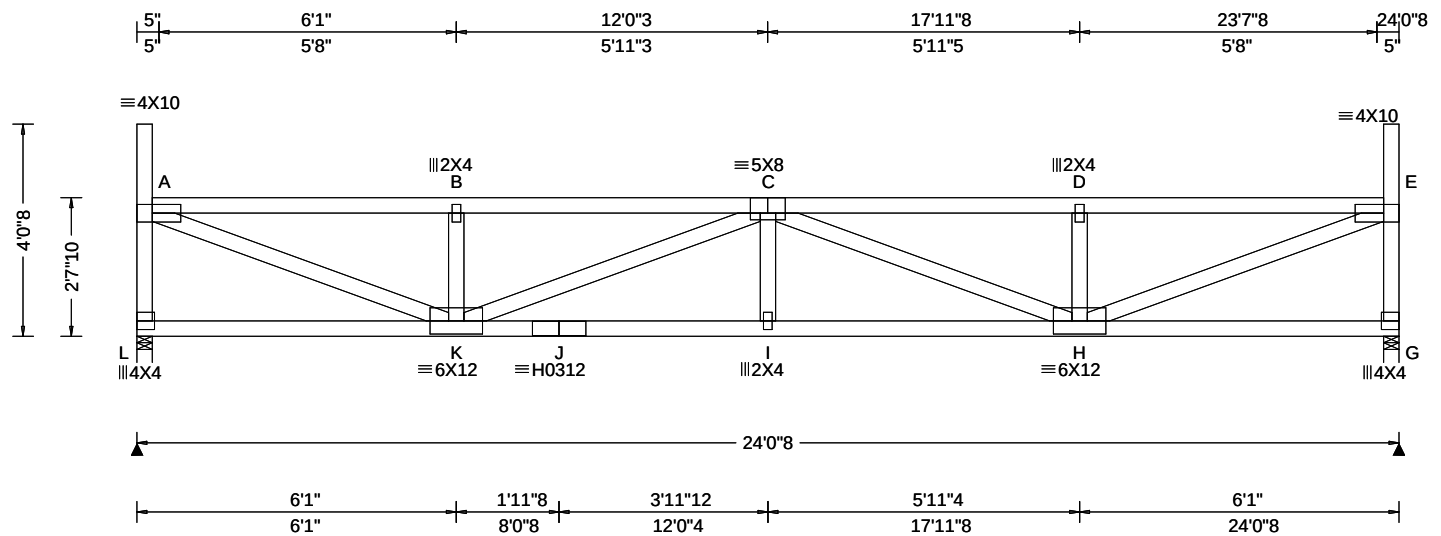
04/28/2022

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SEQN: 34459 /	FLAT	Ply: 1	Job Number: JB-220579R	Cust: R 9316 JRef:1Xf393160008 T148
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 118.22.1352.50022
			Truss Label: T46	/ NDW 04/28/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.243 I 999 360		Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.416 I 692 240		L	1422	/-	/-	/611	/82	/122
BCDL: 10.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.046 A - -		G	1422	/-	/-	/611	/82	/-
Des Ld: 60.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS		HORZ(TL): 0.080 A - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 21.64 ft				Creep Factor: 2.0		L Brg Wid = 3.5 Min Req = 1.8 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.618		G Brg Wid = 3.5 Min Req = 1.8 (Truss)						
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.528		Bearings L & G are a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h				Max Web CSI: 0.750		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft						Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall: not in 14.50 ft						Chords Tens.Comp. Chords Tens. Comp.						
		GCpf: 0.18						A - B 173 - 2956 C - D 172 - 2951						
		Wind Duration: 1.60				VIEW Ver: 21.02.00.1005.17		D - E 173 - 2956 E - F 172 - 2956						

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



04/28/2022

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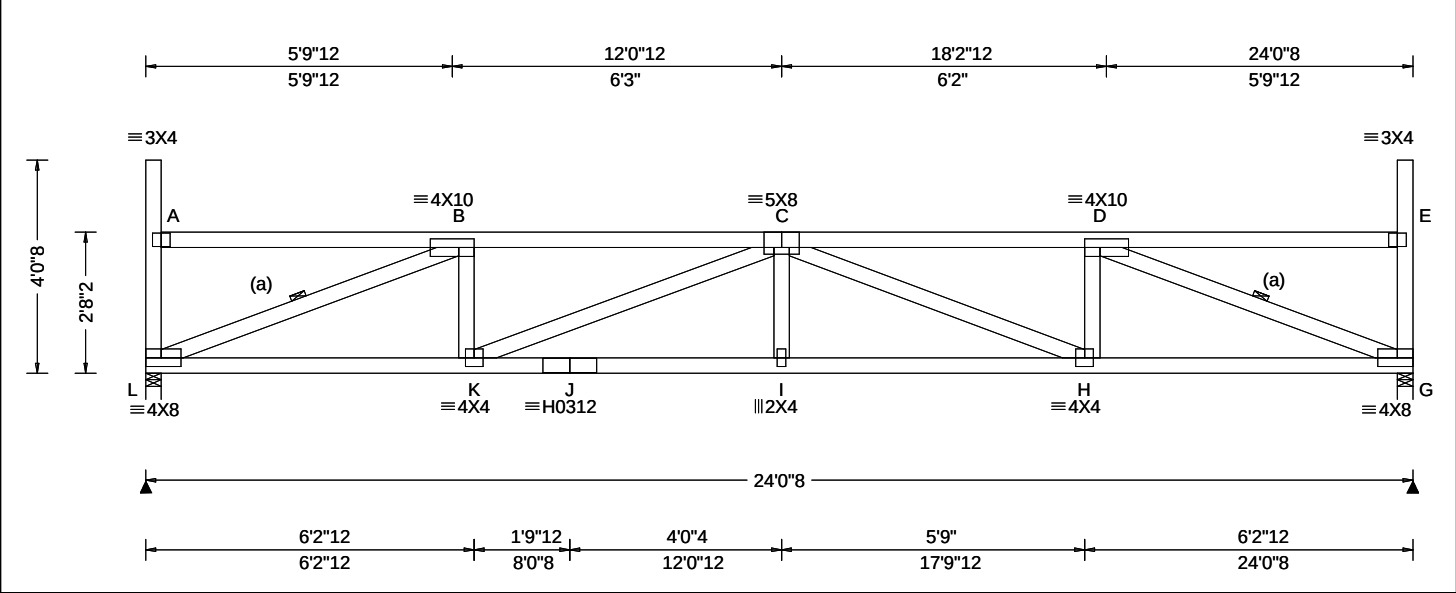
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SEQN: 34460 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T47	Cust: R 9316 JRef:1Xf393160008 T163 DrwNo: 118.22.1352.50496 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.224 I 999 360 VERT(CL): 0.383 I 752 240 HORZ(LL): 0.058 G - - HORZ(TL): 0.100 G - - Creep Factor: 2.0 Max TC CSI: 0.501 Max BC CSI: 0.534 Max Web CSI: 0.652 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1422 /- /- /611 /82 /121 G 1422 /- /- /611 /82 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 166 -2923 C - D 166 -2920

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.16". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



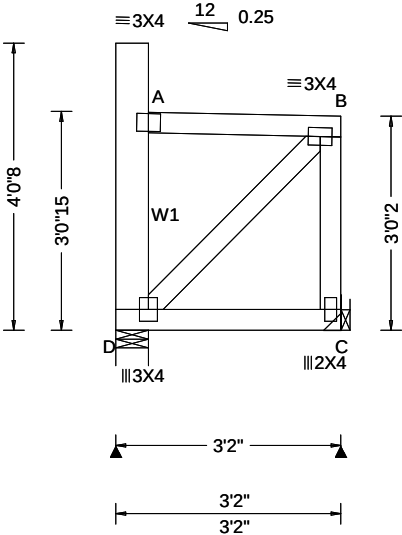
04/28/2022

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Building 6

SEQN: 34461 / FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48	Cust: R 9316 JRef:1Xf393160008 T139 DrwNo: 118.22.1352.49505 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	160	/-	/-	/95	/52	/78
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.001 B 999 240	C	188	/-	/-	/134	/46	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 22.04 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = - Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.139	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.103	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.028							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: not in 29.00 ft	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

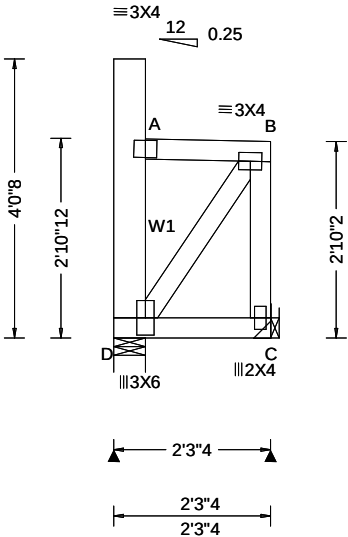
Truss must be installed as shown with top chord up.



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SEQN: 34463 / FROM:	MONO Ply: 1 Qty: 20	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T49	Cust: R 9316 JRef:1Xf393160008 T230 DrwNo: 118.22.1352.51589 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	107	/-	/-	/87	/77	/80
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	133	/-	/-	/135	/60	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5		Min Req = 1.5 (Truss)			
NCBCLL: 0.00	Mean Height: 21.87 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = -		Min Req = -			
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.065	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.052	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.042							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

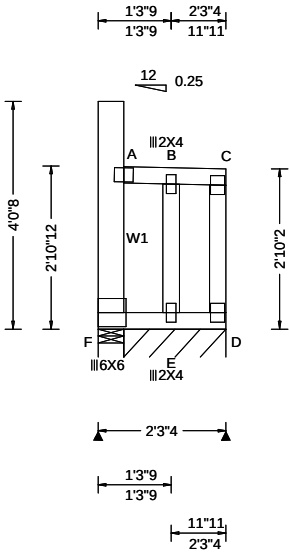


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SEQN: 34464 / FROM:	MONO Ply: 1 Qty: 5	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T50	Cust: R 9316 JRef:1Xf393160008 T128 DrwNo: 118.22.1352.51169 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.006 A 999 360	F	33	/-11	/-	/96	/138	/80
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 A 999 240	D*	128	/-	/-	/130	/57	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.111 B - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.128 B - -	F	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 21.87 ft	Building Code:	Creep Factor: 2.0	D	Brg Wid = 21.7 Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.110	Bearings F & F are a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.254	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.115							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: not in 14.50 ft	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

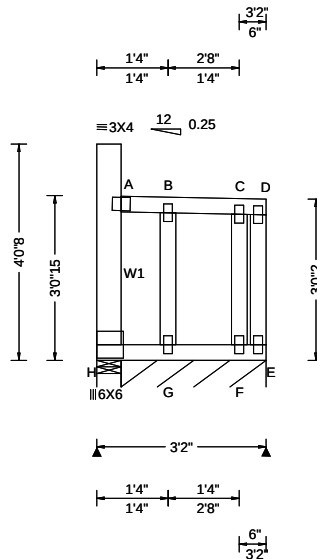


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SEQN: 34465 / FROM:	GABL Qty: 6	Job Number: JB-220579R Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T51	Cust: R 9316 JRef: 1Xf393160008 T114 DrwNo: 118.22.1352.51692 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=-PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240	H 41 /- /- /117 /130 /90
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.121 C - -	E* 113 /- /- /96 /43 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.142 B - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.04 ft	Building Code:	Creep Factor: 2.0	H Brg Wid = 5.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.087	E Brg Wid = 32.5 Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.243	Bearings H & H are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.109	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: not in 29.00 ft	Plate Type(s):		
	GCpi: 0.18	WAVE		
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Fasten rated sheathing to one face of this frame.

All plates are 2X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



04/28/2022

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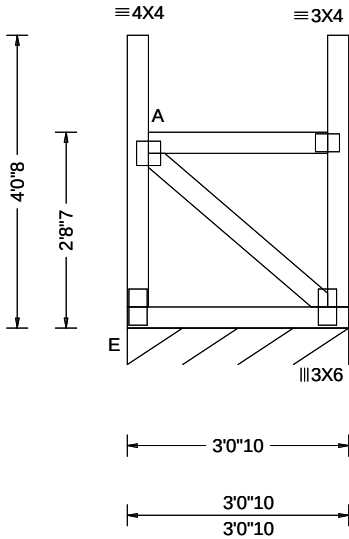
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34466 / FROM:	GABL Ply: 1 Qty: 5	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T52	Cust: R 9316 JRef:1Xf393160008 T216 DrwNo: 118.22.1352.51642 / NDW 04/28/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): -0.000 A 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.000 B 999 240		D* 113 /- /- /45 /4 /39						
BCDL: 10.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): -0.001 B - -		Wind reactions based on MWFRS						
Des Ld: 60.00		EXP: B Kzt: NA				HORZ(TL): 0.002 B - -		D Brg Wid = 36.6 Min Req = -						
NCBCLL: 0.00		Mean Height: 21.70 ft				Creep Factor: 2.0		Bearing E is a rigid surface.						
Soffit: 2.00		TCDL: 5.0 psf		Building Code:		Max TC CSI: 0.142		Members not listed have forces less than 375#						
Load Duration: 1.15		BCDL: 3.0 psf		IBC 2018		Max BC CSI: 0.107		Maximum Web Forces Per Ply (lbs)						
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		TPI Std: 2014		Max Web CSI: 0.221		<u>Webs Tens.Comp.</u>						
		C&C Dist a: 3.00 ft		Rep Fac: Yes				A - D 382 -387						
		Loc. from endwall: Any		FT/RT:20(0)/10(0)										
		GCp: 0.18		Plate Type(s):										
		Wind Duration: 1.60		WAVE		VIEW Ver: 21.02.00.1005.17								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.00	1.34	13.63	2.47
2.76	0.00	20.00	1.34	13.63	2.47

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.

End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/28/2022

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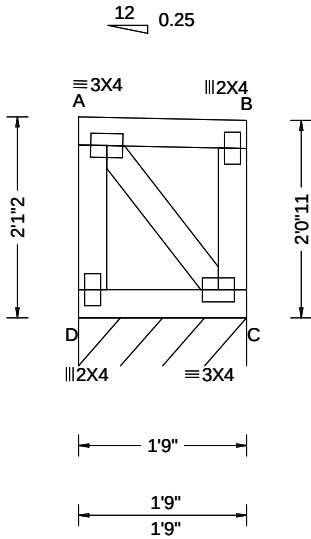
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34467 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE01	Cust: R 9316 JRef:1Xf393160008 T188 DrwNo: 118.22.1352.52159 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.032 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 21.0 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

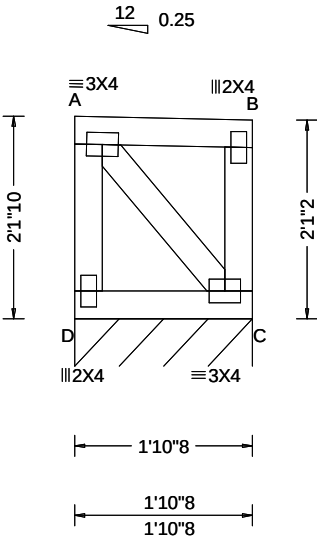


04/28/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com ; TPI: tpinst.org ; SBCA: sbccomponents.com ; ICC: iccsafe.org ; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 6

SEQN: 34468 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE02	Cust: R 9316 JRef:1Xf393160008 T189 DrwNo: 118.22.1352.51165 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.12 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.022 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/18
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/28/2022

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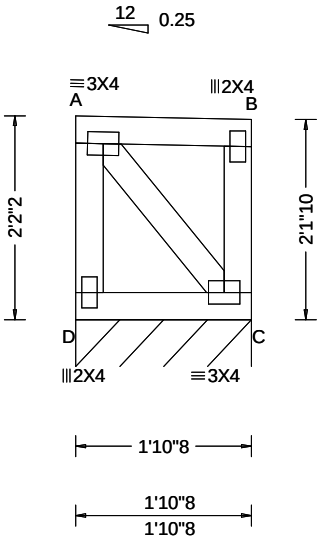
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34469 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE03	Cust: R 9316 JRef:1Xf393160008 T190 DrwNo: 118.22.1352.51814 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.16 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.023 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



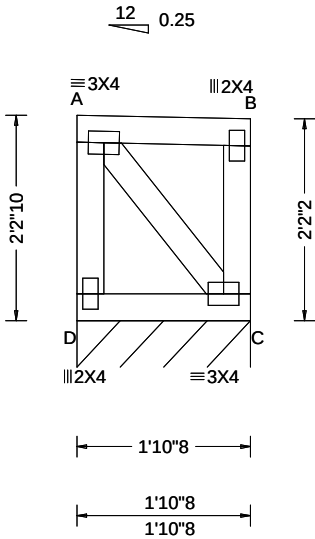
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Building 6

SEQN: 34470 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE04	Cust: R 9316 JRef:1Xf393160008 T192 DrwNo: 118.22.1352.51771 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

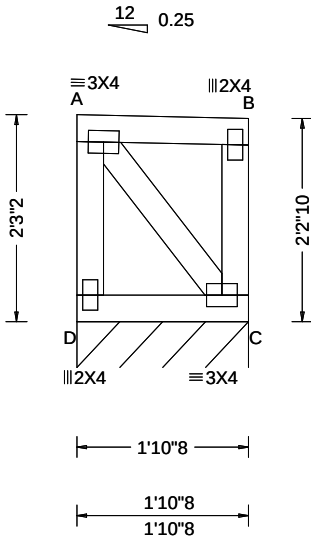


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Building 6

SEQN: 34471 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE05	Cust: R 9316 JRef:1Xf393160008 T215 DrwNo: 118.22.1352.49610 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

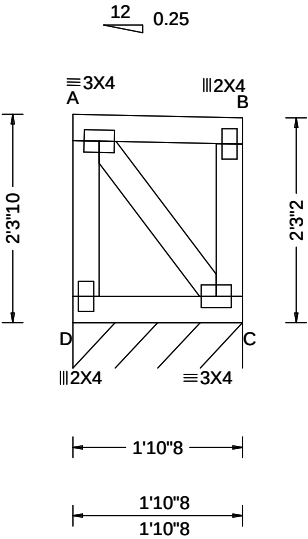


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Building 6

SEQN: 34472 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE06	Cust: R 9316 JRef:1Xf393160008 T219 DrwNo: 118.22.1352.49300 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.28 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.026 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

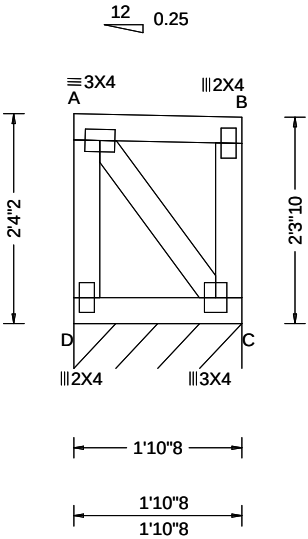


04/28/2022

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Building 6

SEQN: 34473 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE07	Cust: R 9316 JRef:1Xf393160008 T220 DrwNo: 118.22.1352.50065 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.32 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.027 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



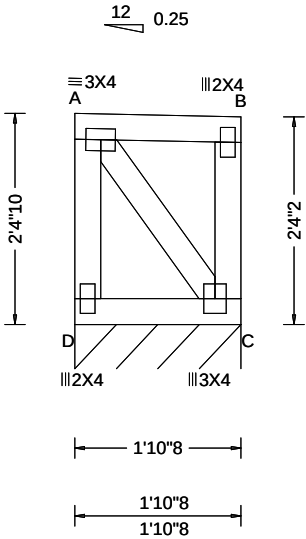
04/28/2022

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Building 6

SEQN: 34474 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE08	Cust: R 9316 JRef:1Xf393160008 T221 DrwNo: 118.22.1352.50251 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



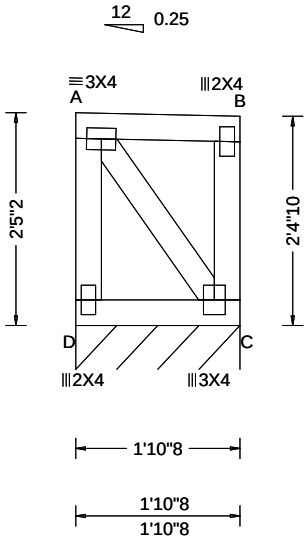
04/28/2022

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Building 6

SEQN: 34475 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE09	Cust: R 9316 JRef:1Xf393160008 T222 DrwNo: 118.22.1352.50855 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.41 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.029 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /5 /22 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

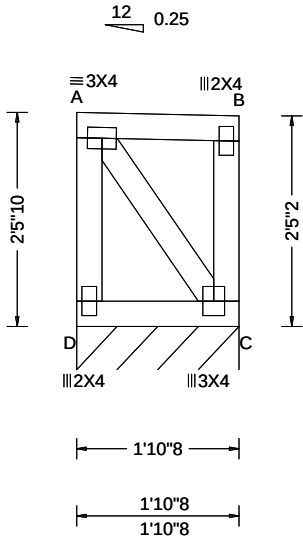


04/28/2022

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Building 6

SEQN: 34476 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE10	Cust: R 9316 JRef:1Xf393160008 T223 DrwNo: 118.22.1352.50940 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.45 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.031 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



04/28/2022

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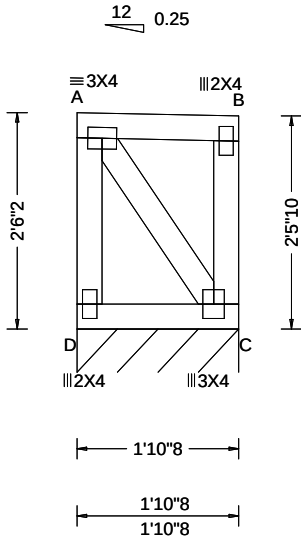
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34477 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE11	Cust: R 9316 JRef:1Xf393160008 T224 DrwNo: 118.22.1352.51726 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.49 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.032 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

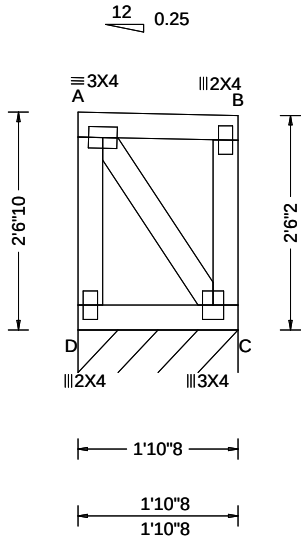


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Building 6

SEQN: 34478 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE12	Cust: R 9316 JRef:1Xf393160008 T225 DrwNo: 118.22.1352.49656 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

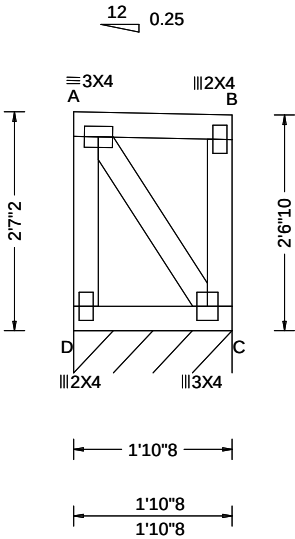


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Building 6

SEQN: 34479 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE13	Cust: R 9316 JRef:1Xf393160008 T226 DrwNo: 118.22.1352.49820 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



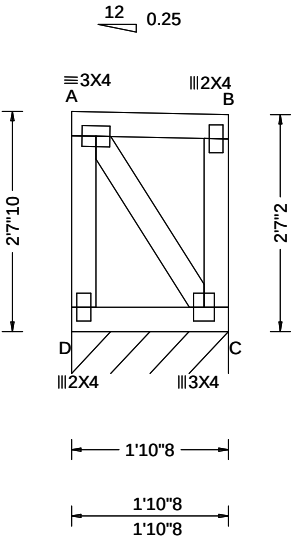
04/28/2022

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Building 6

SEQN: 34480 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE14	Cust: R 9316 JRef:1Xf393160008 T227 DrwNo: 118.22.1352.49303 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.036 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



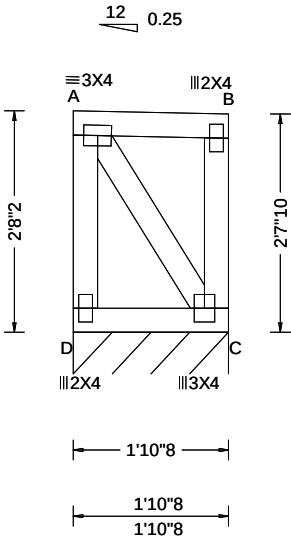
04/28/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 6

SEQN: 34481 / FROM:	MONO Ply: 1 Qty: 10	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE15	Cust: R 9316 JRef:1Xf393160008 T228 DrwNo: 118.22.1352.51673 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.037 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

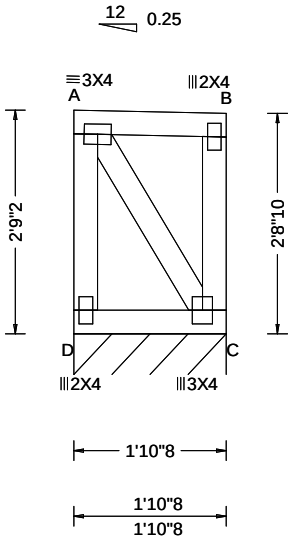


04/28/2022

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Building 6

SEQN: 34482 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE16	Cust: R 9316 JRef:1Xf393160008 T251 DrwNo: 118.22.1352.48867 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



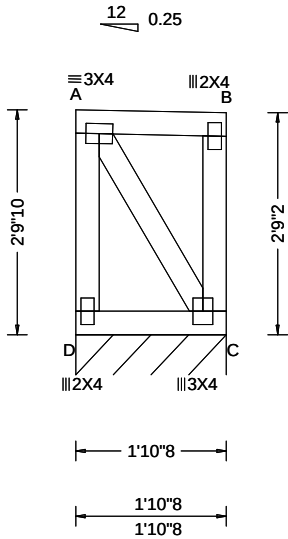
04/28/2022

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Building 6

SEQN: 34483 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE17	Cust: R 9316 JRef:1Xf393160008 T252 DrwNo: 118.22.1352.48895 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/26
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

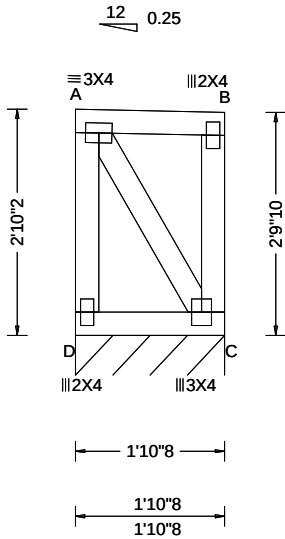


04/28/2022

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Building 6

SEQN: 34484 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE18	Cust: R 9316 JRef:1Xf393160008 T253 DrwNo: 118.22.1352.49381 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.82 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/26
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

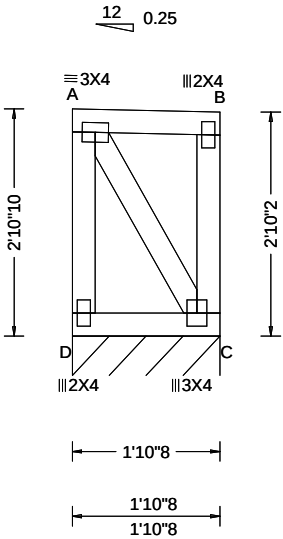


04/28/2022

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Building 6

SEQN: 34485 / FROM:	MONO Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE19	Cust: R 9316 JRef:1Xf393160008 T254 DrwNo: 118.22.1352.50091 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.044 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /27 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



04/28/2022

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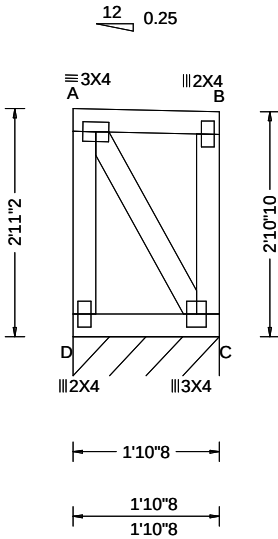
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34486 / FROM:	MONO Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE20	Cust: R 9316 JRef:1Xf393160008 T255 DrwNo: 118.22.1352.49142 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.046 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/28
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

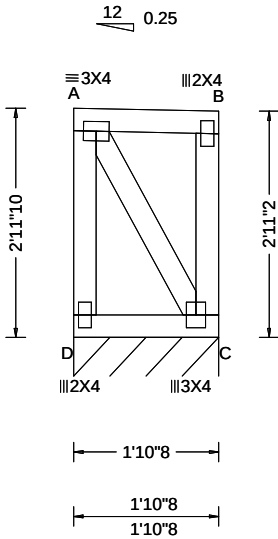
Additional Notes
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Building 6

SEQN: 34487 / FROM:	MONO Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE21	Cust: R 9316 JRef:1Xf393160008 T256 DrwNo: 118.22.1352.50865 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.95 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.047 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /28 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



04/28/2022

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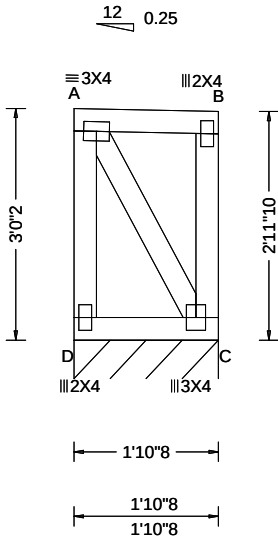
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 6

SEQN: 34488 / FROM:	MONO Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE22	Cust: R 9316 JRef:1Xf393160008 T257 DrwNo: 118.22.1352.51095 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.049 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /29 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

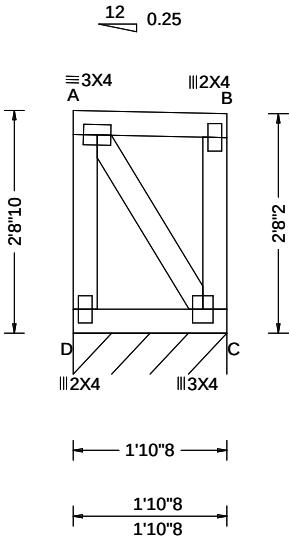


04/28/2022

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Building 6

SEQN: 34489 / FROM:	MONO Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE23	Cust: R 9316 JRef:1Xf393160008 T231 DrwNo: 118.22.1352.50901 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.038 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

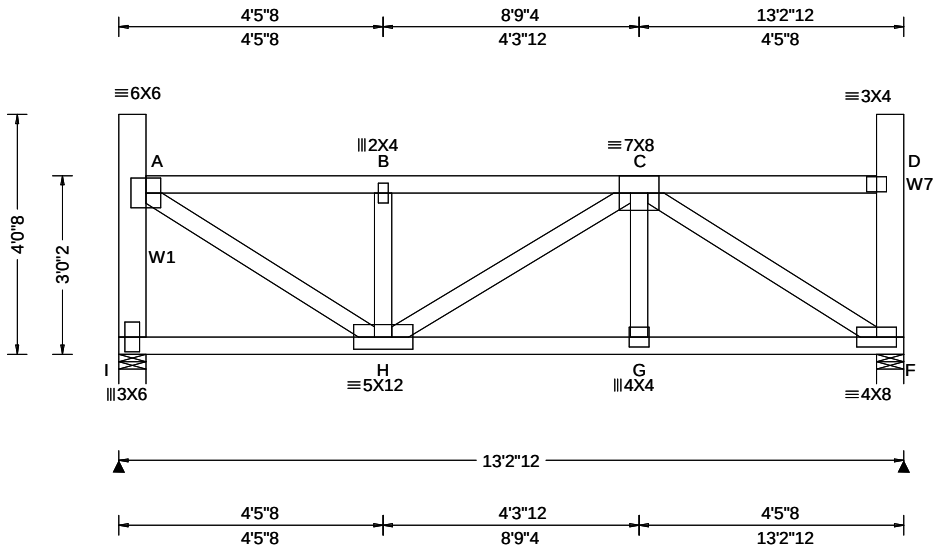


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Building 6

SEQN: 34491 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T09	Cust: R 9316 JRef:1X1393160008 T4 DrwNo: 118.22.1415.27923 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.042 G 999 360 VERT(CL): 0.072 G 999 240 HORZ(LL): 0.014 F - - HORZ(TL): 0.024 F - - Creep Factor: 2.0 Max TC CSI: 0.296 Max BC CSI: 0.918 Max Web CSI: 0.785 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 1362 -/- /- /174 -/ F 1285 -/- /- /149 -/ Non-Gravity Wind reactions based on MWFRS I Brg Wid = 5.5 Min Req = 2.1 (Truss) F Brg Wid = 5.5 Min Req = 2.0 (Truss) Bearings I & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 207 -1665 B - C 206 -1660

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 50 plf at 0.00 to 50 plf at 13.23
BC: 188 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 186 lb Conc. Load at 7.17, 9.17

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

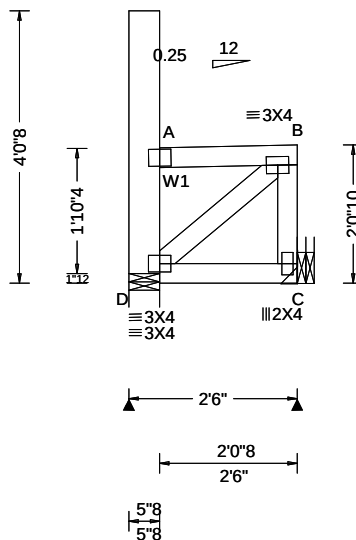


04/28/2022

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SEQN: 34419 / FROM: JRQ	MONO Ply: 1 Qty: 26	Job Number: JB-220579R Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: J02A	Cust: R 9316 JRef: 1Xf393160008 T20 / DrwNo: 118.22.1352.49929 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	D 113 /- /- /89 /75 /61
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	C 158 /- /- /132 /55 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.03 ft	Building Code:	Creep Factor: 2.0	D Brg Wid = 5.5 Min Req = 1.5 (Support)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.102	C Brg Wid = - Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.066	Bearing D is a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.106	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	2.03	30.67
					2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Truss must be installed as shown with top chord up.



04/28/2022

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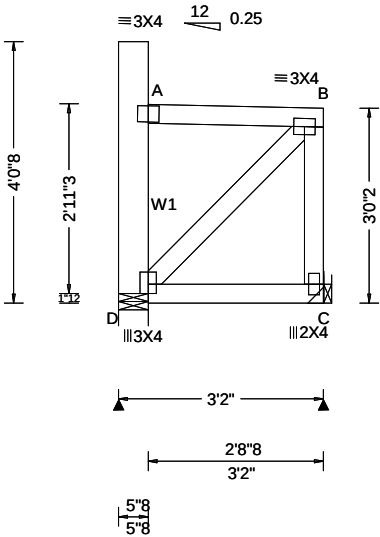
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Building 6

SEQN: 34462 / FROM:	MONO Ply: 1 Qty: 6	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48A	Cust: R 9316 JRef:1Xf393160008 T15 / DrwNo: 118.22.1352.51535 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	139	/-	/-	/81	/42	/34
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	186	/-	/-	/113	/32	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Support)					
NCBCLL: 0.00	Mean Height: 22.04 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = - Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.139	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.109	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.028							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

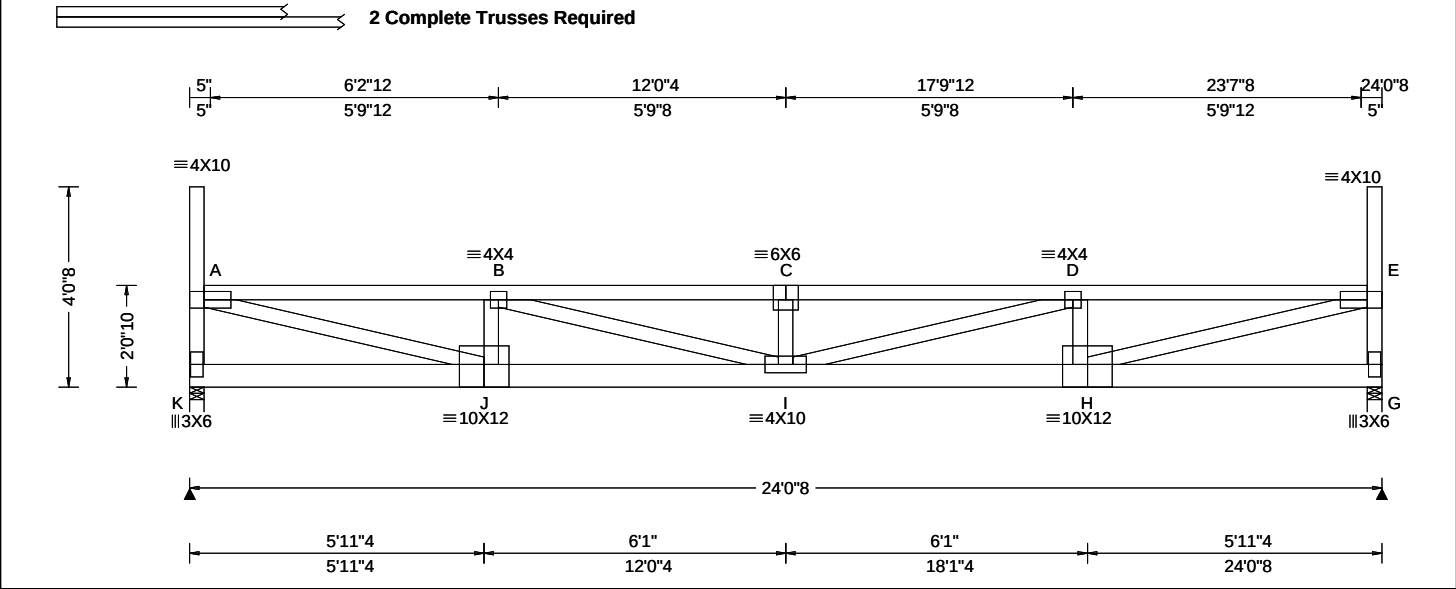
Truss must be installed as shown with top chord up.



04/28/2022

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SEQN: 34509 FROM:	FLAT Qty: 2	Ply: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T32	Cust: R 9316 JRef:1Xf393160008 T18 DrwNo: 118.22.1416.09013 / NDW 04/28/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.375 C 768 360	K	2305	-	-	-	/380	-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.643 C 448 240	G	2291	-	-	-	/389	-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.049 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.083 A - -	K Brg Wid = 3.5 Min Req = 1.8 (Truss)						
NCBCLL: 0.00	Mean Height: 21.05 ft		Creep Factor: 2.0	G Brg Wid = 3.5 Min Req = 1.8 (Truss)						
Soffit: 2.00	TCDL: 5.0 psf	Building Code:	Max TC CSI: 0.731	Bearings K & G are a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	IBC 2018	Max BC CSI: 0.552	Members not listed have forces less than 375#						
	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.814	Maximum Top Chord Forces Per Ply (lbs)						
	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case		Chords	Tens.Comp.	Chords	Tens. Comp.			
Spacing: 24.0 "	Loc. from endwall: Any	FT/RT:20(0)/10(0)		A - B	562	-3287	C - D	751	-4305	
	GCpi: 0.18	Plate Type(s):		B - C	751	-4305	D - E	579	-3287	
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650F-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 50 plf at 0.00 to 50 plf at 24.04
BC: 158 lb Conc. Load at 1.90, 3.90, 5.90, 7.90, 9.90, 19.90
BC: 160 lb Conc. Load at 11.90, 13.90, 15.90, 17.90, 21.90

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.99 34.38 4.14
23.75 0.00 23.46 1.99 34.38 4.14
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.38" DL: 0.27". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
J - I	3358 -569	I - H	3358 -586

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
K - A	161 -1006	I - D	986 -172
A - J	3317 -569	D - H	42 -433
J - B	48 -433	H - E	3318 -586
B - I	986 -189	E - G	166 -1006



04/28/2022

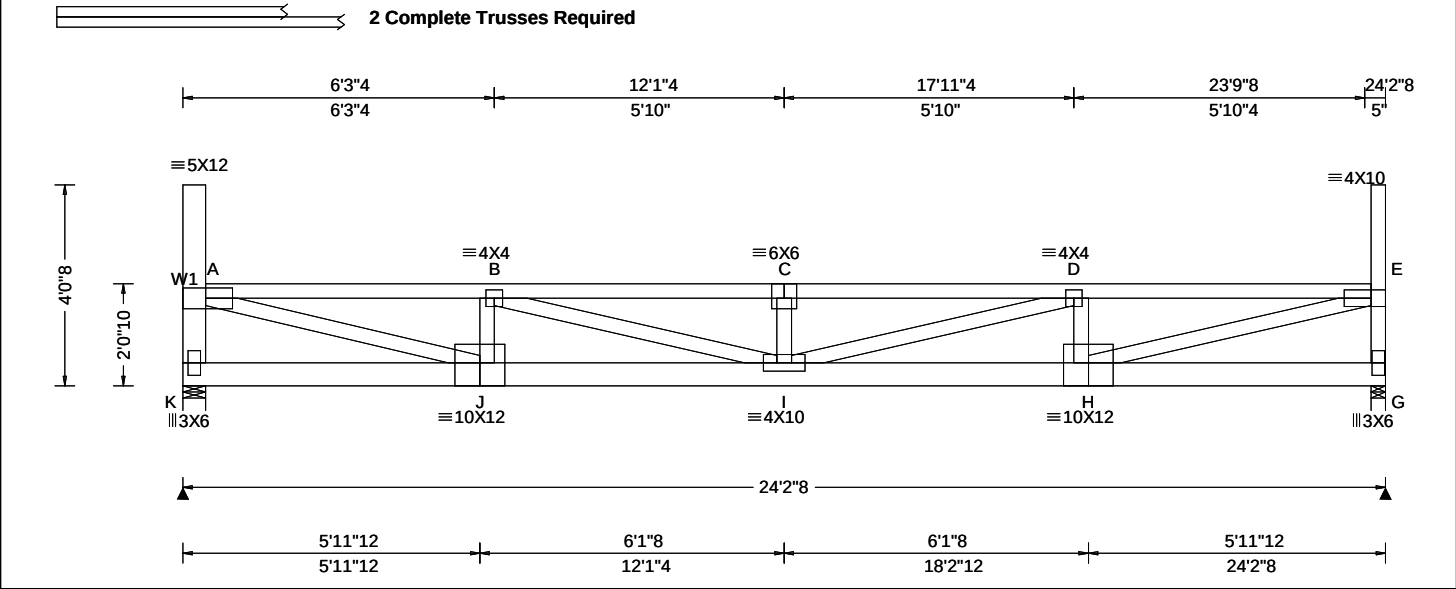
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34512 FROM:	FLAT Qty: 3	Ply: 2	Job Number: JB-220579R Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T16	Cust: R 9316 JRef:1Xf393160008 T12 DrwNo: 118.22.1415.46960 / NDW 04/28/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.384 C 756 360 VERT(CL): 0.658 C 441 240 HORZ(LL): 0.050 A - - HORZ(TL): 0.086 A - - Creep Factor: 2.0 Max TC CSI: 0.758 Max BC CSI: 0.559 Max Web CSI: 0.824 VIEW Ver: 21.02.00.1005.17	<table><tr><th colspan="7">▲ Maximum Reactions (lbs)</th></tr><tr><th colspan="4">Gravity</th><th colspan="3">Non-Gravity</th></tr><tr><th>Loc</th><th>R+</th><th>/ R-</th><th>/ Rh</th><th>/ Rw</th><th>/ U</th><th>/ RL</th></tr><tr><td>K</td><td>2296</td><td>-/-</td><td>-/-</td><td>-/-</td><td>/391</td><td>-/-</td></tr><tr><td>G</td><td>2309</td><td>-/-</td><td>-/-</td><td>-/-</td><td>/378</td><td>-/-</td></tr><tr><td colspan="7">Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.</td></tr><tr><td>A - B</td><td>583</td><td>-3326</td><td>C - D</td><td>758</td><td>-4363</td><td></td></tr><tr><td>B - C</td><td>758</td><td>4363</td><td>D - E</td><td>567</td><td>3328</td><td></td></tr></table>	▲ Maximum Reactions (lbs)							Gravity				Non-Gravity			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	K	2296	-/-	-/-	-/-	/391	-/-	G	2309	-/-	-/-	-/-	/378	-/-	Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.							A - B	583	-3326	C - D	758	-4363		B - C	758	4363	D - E	567	3328	
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	A - B	583	-3326	C - D	758	-4363																																																						
	B - C	758	4363	D - E	567	3328																																																						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 50 plf at 0.00 to 50 plf at 24.21
BC: 160 lb Conc. Load at 2.15, 4.15, 8.15,10.15,12.15
BC: 158 lb Conc. Load at 6.15,14.15,16.15,18.15,20.15,22.15

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.99 34.38 4.14
23.92 0.00 23.46 1.99 34.38 4.14
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.38" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
J - I	3397 - 590	I - H	3400 - 575

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
K - A	165 - 1000	I - D	1002 - 191
A - J	3298 - 580	D - H	48 - 437
J - B	43 - 436	H - E	3358 - 574
B - I	1005 - 175	E - G	162 - 1012



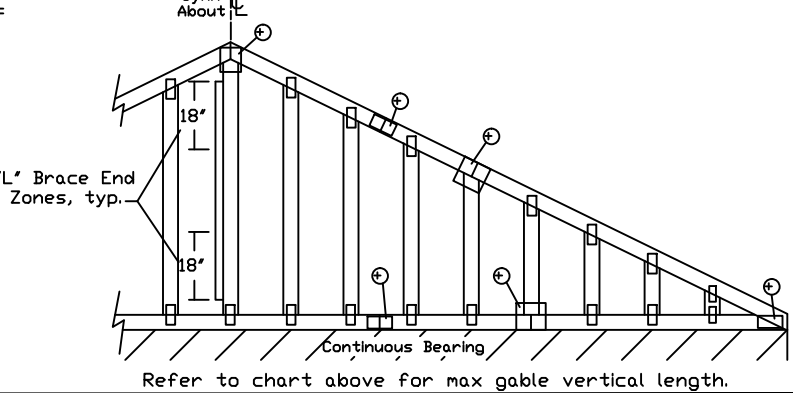
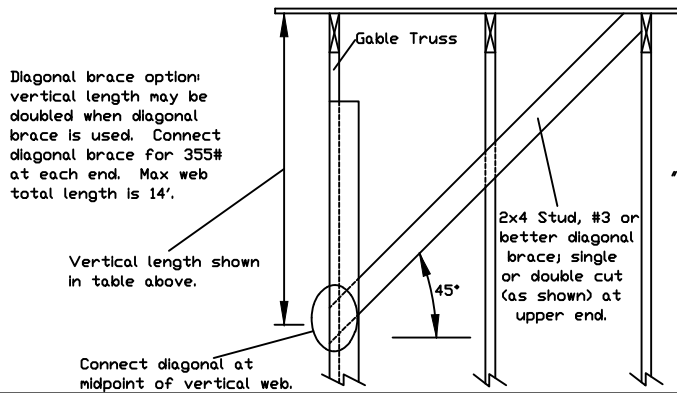
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Gable Stud Reinforcement Detail
ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
	24" O.C.	SPF HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
#3			4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
Stud			4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
Standard			4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
SP DFL			#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
SPF HF		Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"	14' 0"
		SP DFL	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"		
16" O.C.	SPF HF	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	
		#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	
		Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	
		Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"	
		SPF HF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	#3		5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	Stud		5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	Standard		5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	SP DFL		#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
SPF HF	Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		
	Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"		



Bracing Group Species and Grades:									
Group A:					Group B:				
Spruce-Pine-Fir					Hem-Fir				
#1 / #2	Standard	#2	Stud		#1 & Btr	#1			
#3	Stud	#3	Stud						
Douglas Fir-Larch					Southern Pine***				
#3		#3			#1				
Stud		Stud			#2				
Standard		Standard							

Gable Truss Detail Notes:
Wind Load deflection criterion is L/240.
Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.
* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
** For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.
'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.



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REF	ASCE7-16-GAB11530
DATE	01/26/2018
DRWG	A11530ENC160118
MAX. TOT. LD. 60 PSF	
MAX. SPACING 24.0'	

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

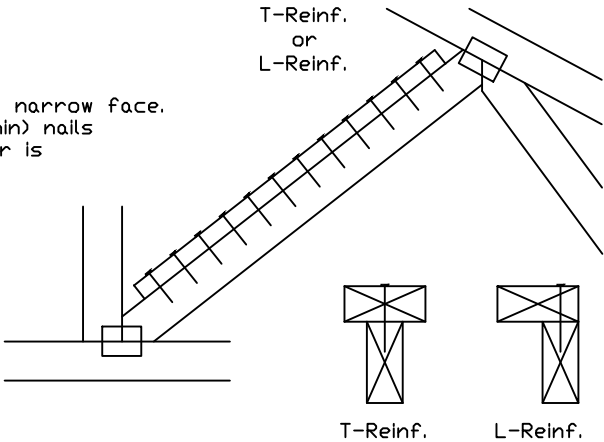
Web Member Size	Specified CLR Restraint	Alternative Reinforcement	
		T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

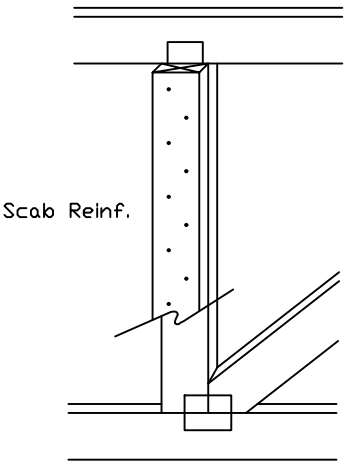
T-Reinforcement
or
L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

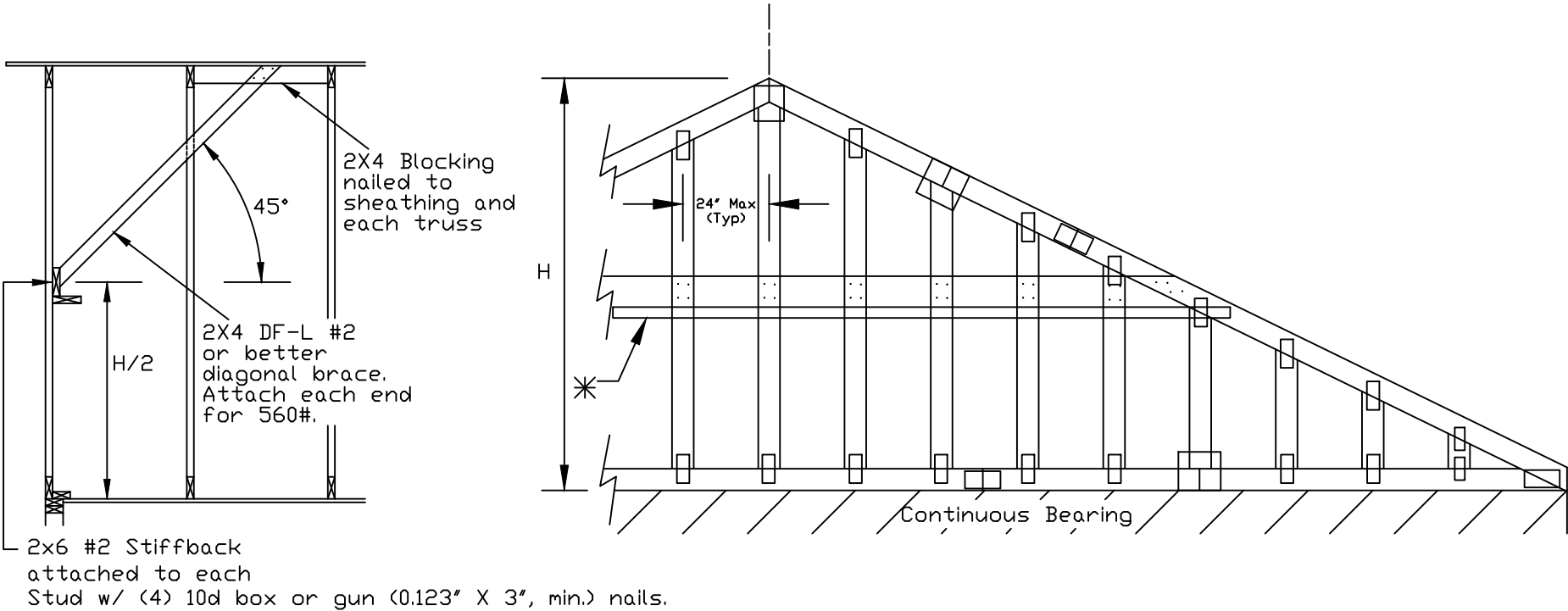
120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail
for lumber, plates, and other information not shown
on this detail.

Nails: 10d box or gun (0.128"x3",min) nails.

- H Less than 4'6" - no stud bracing required
 - H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback
to roof diaphragm every 6'0" (see detail below or
refer to DRWG A12030ENC160118).
 - H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace
to roof diaphragm every 4'0" (see detail below or
refer to DRWG A12030ENC160118).
- * Optional 2x L-reinforcement attached
to stiffback with 10d box or gun
(0.128" x 3", min.) nails @ 6" o.c.



WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.
A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

MAX. TOT. LD. 60 PSF

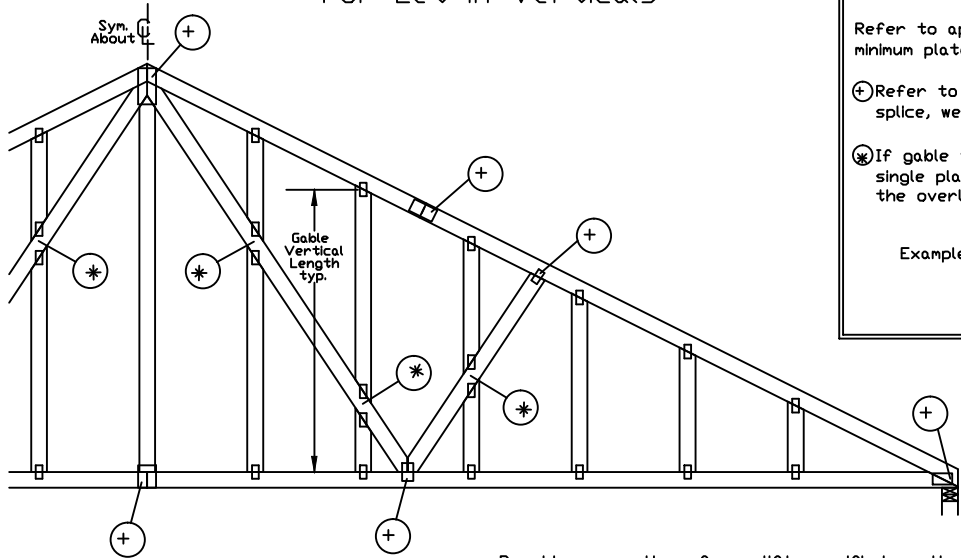
MAX. SPACING

REF GE WHALER

DATE 01/02/2018

DRWG GABRST160118

Gable Detail
For Let-in Verticals



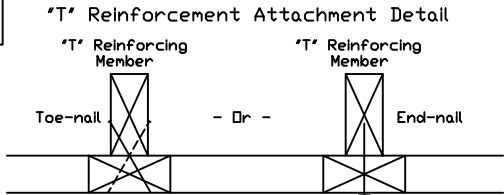
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148"x 3",min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x 3",min) Toenails at 4' o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

- ASCE 7-05 Gable Detail Drawings
- A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014
- ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
- A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.

To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24' o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"



WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcacomponents.com ICC: www.iccsafe.org

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118



Structural Engineers – Since 1957

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

BOB D. CAMPBELL & CO., INC.

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Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 7 Floor Layout Shop Drawings	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

DO NOT Erect Backwards/UpSide Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Right Orientation of Trusses



Job Name:

McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220677

Date: 3/17/2022

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address:

2100 NW Lowenstein Dr
Lee's Summit
MO

Group 7 Floor Layout

Total Truss Quantity = 180.

Total Plan Area with OHs = 4343 sq.ft

HANGER CHART

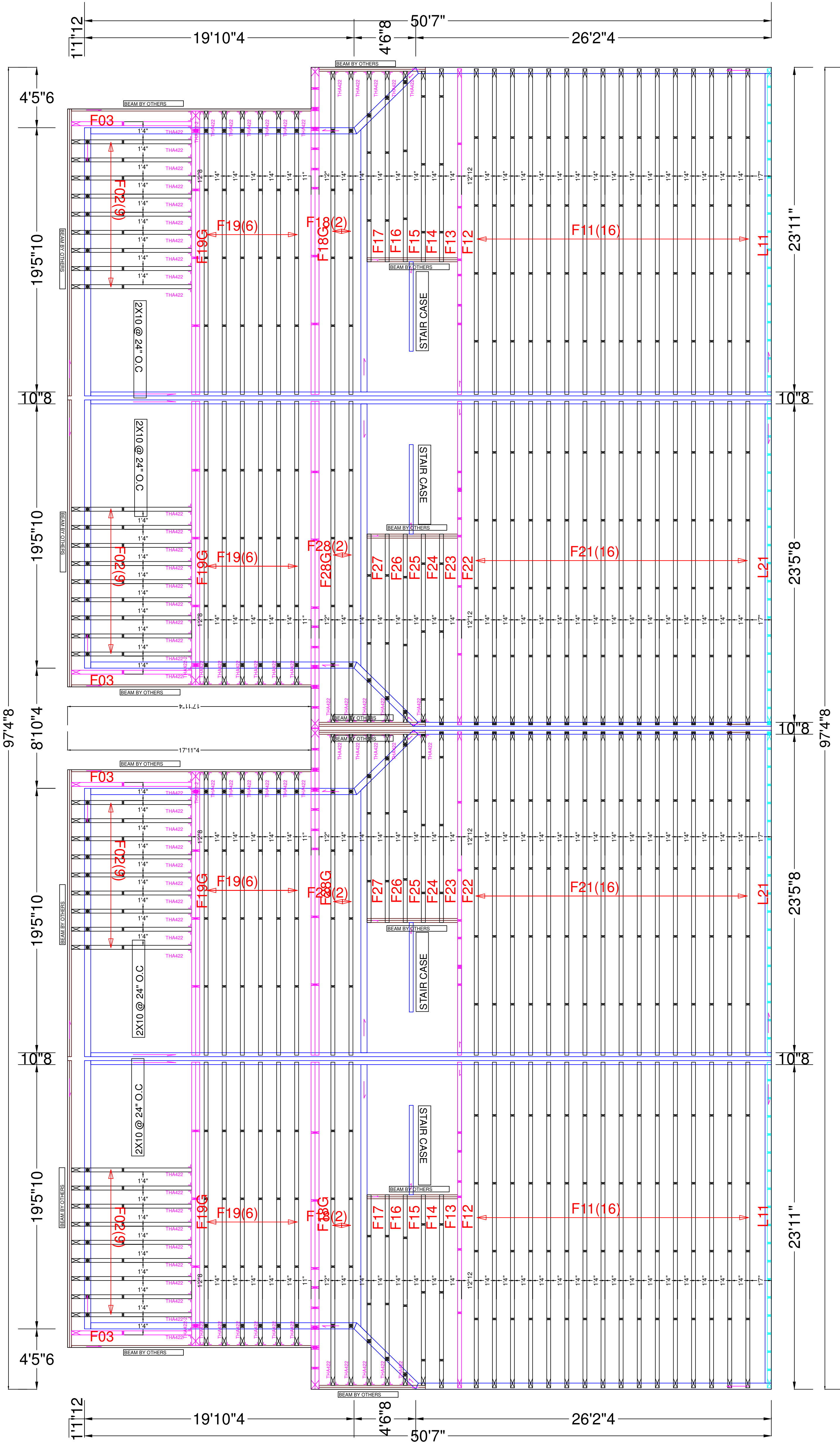
Symbol	Name	Qty	Manufacturer
=	THA422	86	Simpson
=	THA422-2	4	Simpson

REVIEWED ☒ DATE REVIEWED: 5/23/2022
REVIEWED AS NOTED ☐
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.shiva
SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.



1700 Brentwood Blvd
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☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED, REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 05/10/2022 BY: CB





03/17/2022



Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone: (800)326-4102 (314)344-9121
alpineitw.com

SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/10/2022 BY: CB

REVIEWED ☒ DATE RECIEVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE
WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE
CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND
CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES,
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EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES,
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AN APPROVED
CHANGE ORDER.



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220677
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00 JRef #: 1XdX93160004
Wind Standard: ASCE716 Wind Speed (mph): 0	Design Loading (psf): 75.00
Building Type:	

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	076.22.1315.41268	F02	2	076.22.1315.41817	F03
3	076.22.1315.42590	F11	4	076.22.1315.41959	F12
5	076.22.1315.41816	F13	6	076.22.1315.41640	F14
7	076.22.1315.41777	F15	8	076.22.1315.42414	F16
9	076.22.1315.42976	F17	10	076.22.1315.41322	F18
11	076.22.1315.42597	F18G	12	076.22.1315.55011	F19
13	076.22.1315.54878	F19G	14	076.22.1315.41247	F21
15	076.22.1315.43294	F22	16	076.22.1315.41681	F23
17	076.22.1315.41324	F24	18	076.22.1315.42035	F25
19	076.22.1315.41350	F26	20	076.22.1315.41325	F27
21	076.22.1315.41343	F28	22	076.22.1315.41306	F28G
23	076.22.1315.41953	L11	24	076.22.1315.42179	L21
25	CNSY42PL0118		26	DEFLCAMB1014	
27	LSCSYX2A1014		28	STRBRIBR1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)**Key to Terms:**

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

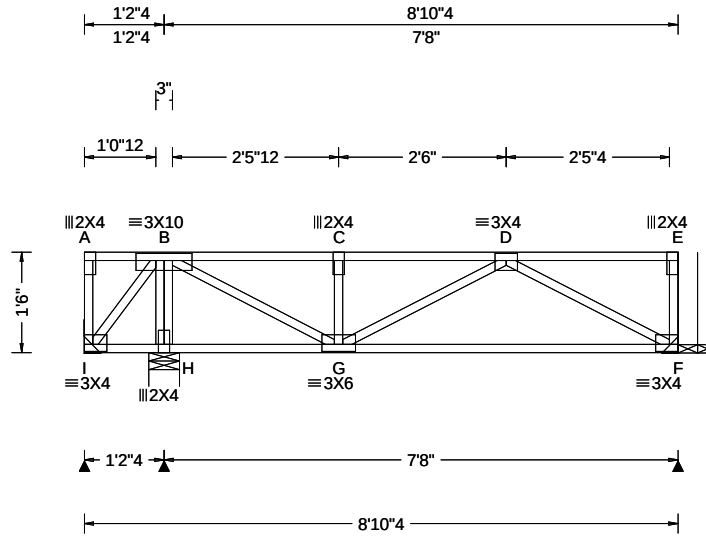
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 7

SEQN: 97172 / FROM:	SY42 Qty: 36	Ply: 1 Qty: 36	Job Number: JB-220677 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F02	Cust: R 9316 JRef: 1XdX93160004 T6 DrwNo: 076.22.1315.41268 / NDW 03/17/2022
------------------------	-----------------	-------------------	---	--



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.018 C 999 480 VERT(CL): 0.034 C 999 360 HORZ(LL): 0.002 F - - HORZ(TL): 0.004 F - - Creep Factor: 2.0 Max TC CSI: 0.299 Max BC CSI: 0.301 Max Web CSI: 0.162 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 28 /-43 /- /- /- /- H 525 /- /- /- /- /- F 372 /- /- /- /- /- I Brg Wid = - Min Req = - H Brg Wid = 5.5 Min Req = 1.5 (Truss) F Brg Wid = - Min Req = - Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

G - F 473 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

B - H 0 -499 D - F 0 -537
B - G 576 0



03/17/2022

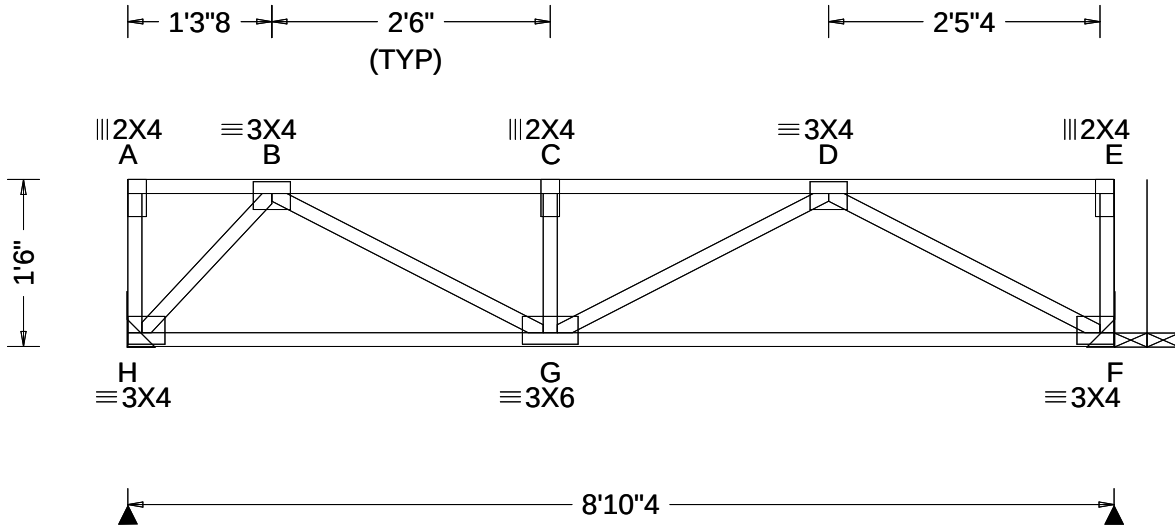
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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Building 7

SEQN: 97174 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220677 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F03	Cust: R 9316 JRef: 1XdX93160004 T7 / DrwNo: 076.22.1315.41817 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.024 C 999 480 VERT(CL): 0.046 C 999 360 HORZ(LL): 0.004 B - - HORZ(TL): 0.008 B - - Creep Factor: 2.0 Max TC CSI: 0.298 Max BC CSI: 0.324 Max Web CSI: 0.141 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL H 443 /- /- /- /- /- F 443 /- /- /- /- /- H Brg Wid = - Min Req = - F Brg Wid = - Min Req = - Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -747 C - D 0 -747 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. G - F 606 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. H - B 0 -546 D - F 0 -687 B - G 426 0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.

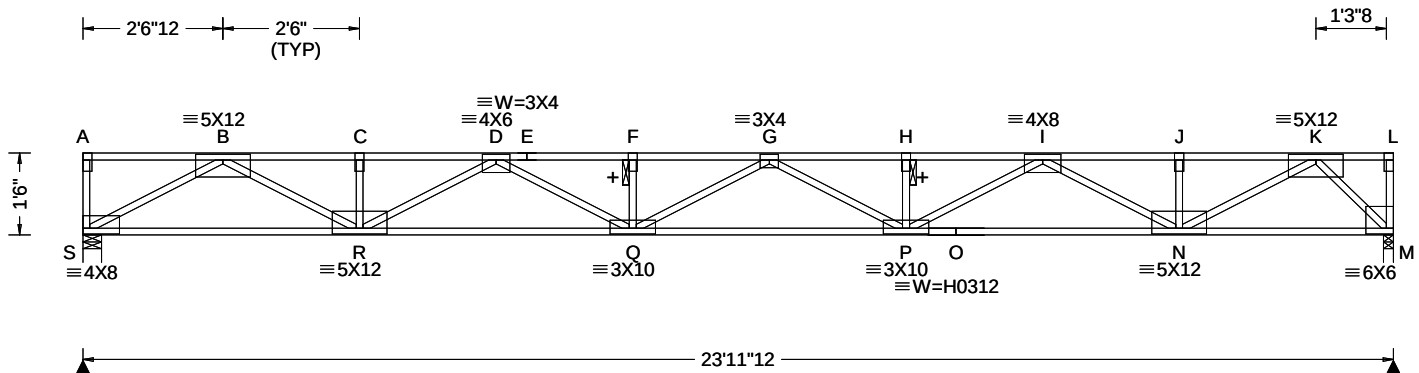


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SEQN: 97176 /	SY42	Qty: 32	Job Number: JB-220677 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F11	Cust: R 9316 JRef: 1XdX93160004 T28 / DrwNo: 076.22.1315.42590 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.414 G 695 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.775 G 371 360	S 1199 /- /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.057 M - -	M 1199 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.107 M - -	S Brg Wid = 4.1 Min Req = 1.5 (Truss)
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.398	Bearings S & M are a rigid surface.
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.672	Members not listed have forces less than 375#
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.551	Maximum Top Chord Forces Per Ply (lbs)
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Chords Tens.Comp. Chords Tens. Comp.
	Loc. from endwall: NA	Plate Type(s):		B - C 0 - 3522 G - H 0 - 4917
	I: NA GCpi: NA	WAVE, HS	VIEW Ver: 21.02.00.1005.17	C - D 0 - 3522 H - I 0 - 4917
	Wind Duration: NA			E - F 0 - 3522 J - K 0 - 4917

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

All plates are 2X4 except as noted.

Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail
DEFLCAMB1014 for camber recommendations.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

▲ Maximum Reactions (lbs)						
Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	1199	/-	/-	/-	/-	/-
M	1199	/-	/-	/-	/-	/-
S	Brg Wid = 4.1 Min Req = 1.5 (Truss)					
M	Brg Wid = 2.1 Min Req = 1.5 (Truss)					
Bearings S & M are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.Comp.		Chords		Tens. Comp.	
B - C	0	- 3522	G - H	0	- 4917	
C - D	0	- 3522	H - I	0	- 4917	
D - E	0	- 5123	I - J	0	- 2895	
E - F	0	- 5123	J - K	0	- 2895	
F - G	0	- 5123				

Chords	Tens.Comp.		Chords	Tens. Comp.	
S - R	2010	0	P - O	4106	0
R - Q	4523	0	O - N	4106	0
Q - P	5219	0	N - M	1183	0

Webs	Tens.Comp.	Webs	Tens.	Comp.
S - B	0 - 2281	P - I	925	0
B - R	1725 0	I - N	0	- 1382
R - D	0 - 1143	N - K	1954	0
D - Q	684 0	K - M	0	- 1648



03/17/2022

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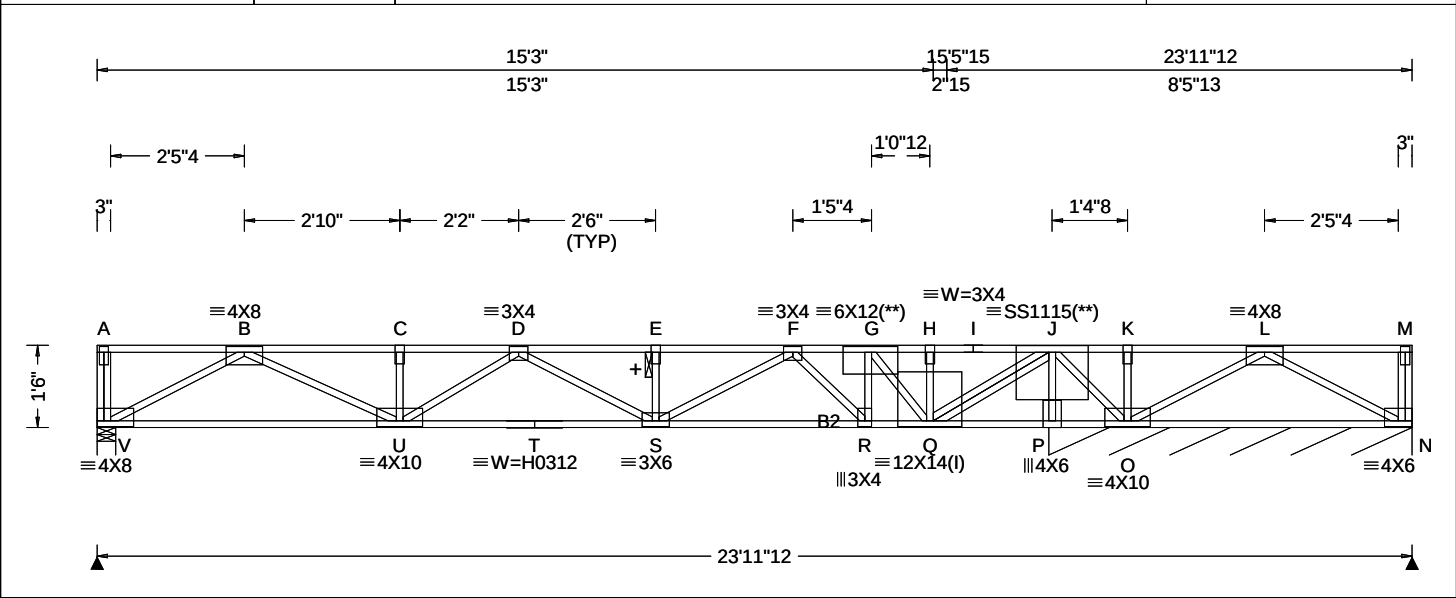
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SEQN: 97178 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F12	Cust: R 9316 JRef:1XdX93160004 T1 / DrwNo: 076.22.1315.41959 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.201 E 999 480 VERT(CL): 0.377 E 545 360 HORZ(LL): 0.029 B - - HORZ(TL): 0.054 B - - Creep Factor: 2.0 Max TC CSI: 0.946 Max BC CSI: 0.960 Max Web CSI: 0.568 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL V 961 -/-/-/-/-/- N* 443 -/-/-/-/-/- N -/-304 V Brg Wid = 4.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2615 G - H 0 -818 C - D 0 -2615 H - I 0 -818 D - E 0 -3202 I - J 0 -818 E - F 0 -3202 J - K 2031 0 F - G 0 -2426 K - L 2031 0

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads
----(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

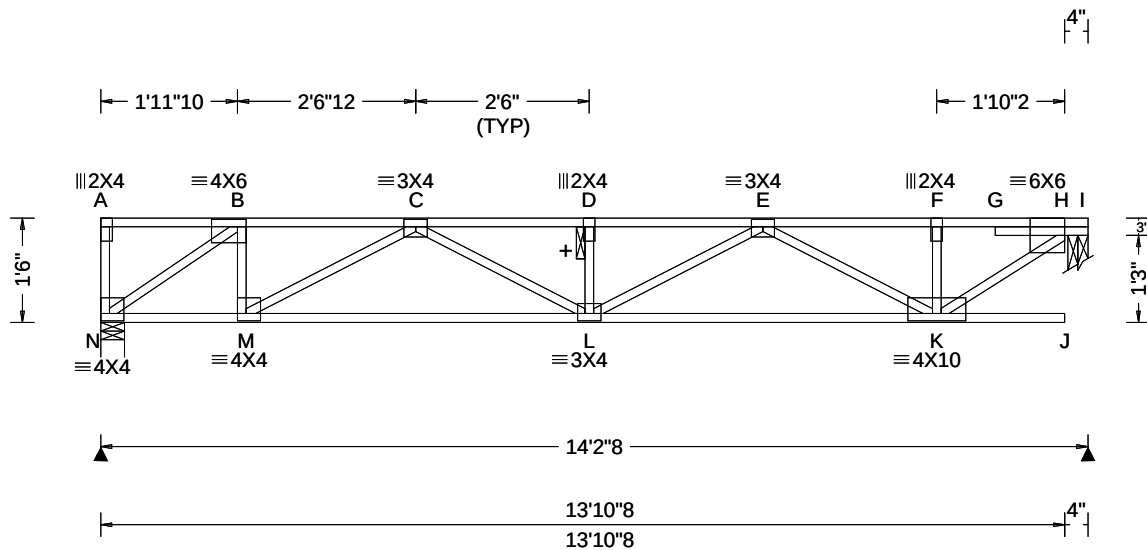
Plating Notes
All plates are 2X4 except as noted.
(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.



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 514 Earth City Expressway Suite 242 Earth City, Missouri 63045		

SEQN: 97180 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220677 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F13	Cust: R 9316 JRef: 1XdX93160004 T23 / DrwNo: 076.22.1315.41816 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.096 D 999 480 VERT(CL): 0.179 D 942 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.620 Max BC CSI: 0.537 Max Web CSI: 0.329 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 702 -/- /- /- /- /- H 714 -/- /- /- /- /- N Brg Wid = 4.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -943 E - F 0 -943 C - D 0 -1836 F - H 0 -942 D - E 0 -1836

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	905	L - K	1574
M - L	1582		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1104	E - K	0 -721
B - M	416	K - H	1166
M - C	0 -734		0



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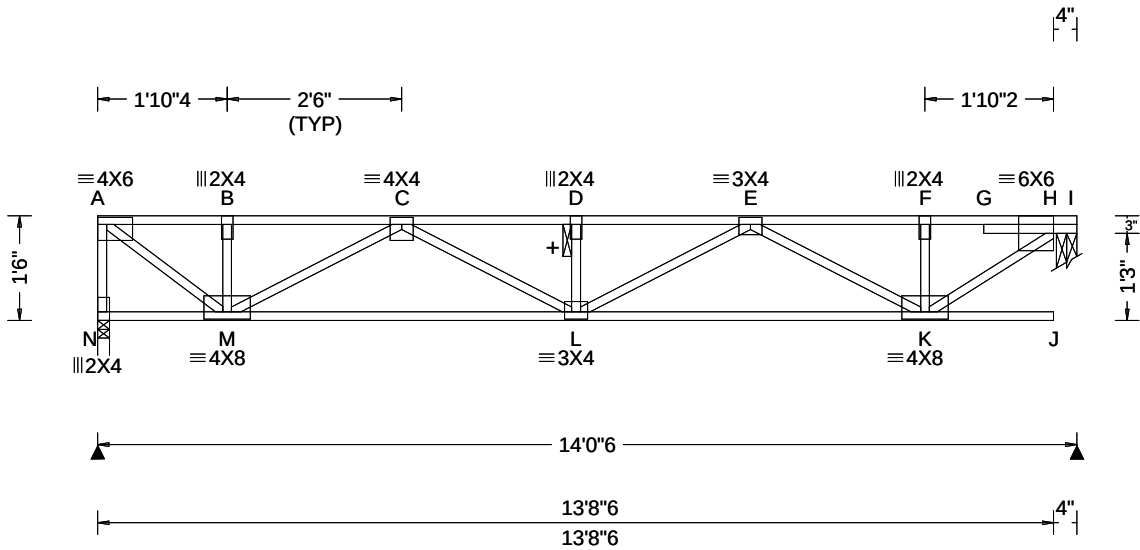
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Building 7

SEQN: 97182 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F14	Cust: R 9316 JRef:1XdX93160004 T15 / DrwNo: 076.22.1315.41640 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.093 D 999 480 VERT(CL): 0.174 D 955 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.612 Max BC CSI: 0.524 Max Web CSI: 0.324 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 693 /- /- /- /- /- H 706 /- /- /- /- /- N Brg Wid = 2.0 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -849 D - E 0 -1791 B - C 0 -849 E - F 0 -929 C - D 0 -1791 F - H 0 -929

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1520 0	L - K	1546 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -690	E - K	0 -703
A - M	1057 0	K - H	1150 0
M - C	0 -766		

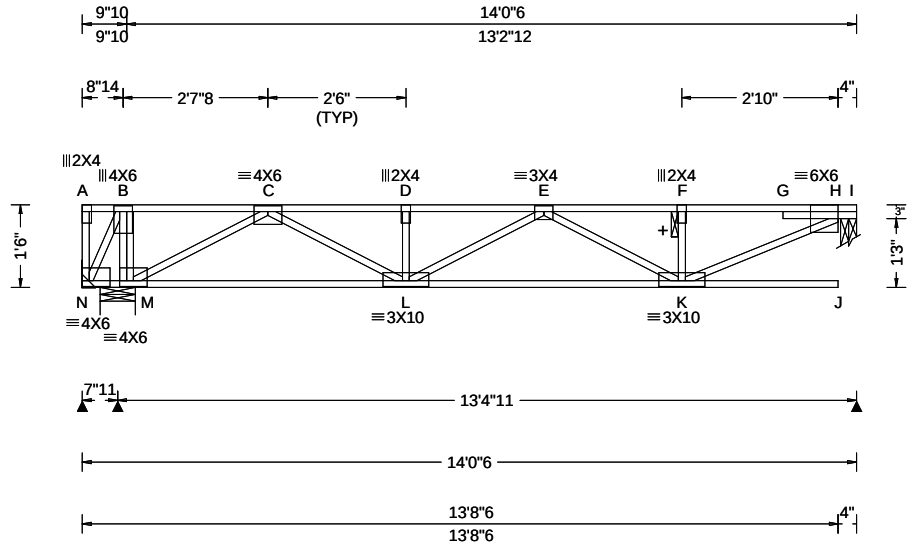


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SEQN: 97184 / FROM:	SY42 Ply: 1 Qty: 2	Job Number: JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F15	Cust: R 9316 JRef:1XdX93160004 T26 / DrwNo: 076.22.1315.41777 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.200 J 780 480 VERT(CL): 0.320 J 487 360 HORZ(LL): 0.011 C - - HORZ(TL): 0.020 C - - Creep Factor: 2.0 Max TC CSI: 0.961 Max BC CSI: 0.588 Max Web CSI: 0.339 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-708 /- /- /- /- N 1480 /- /- /- /- /- H 618 /- /- /- /- /- N Brg Wid = - Min Req = - N Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

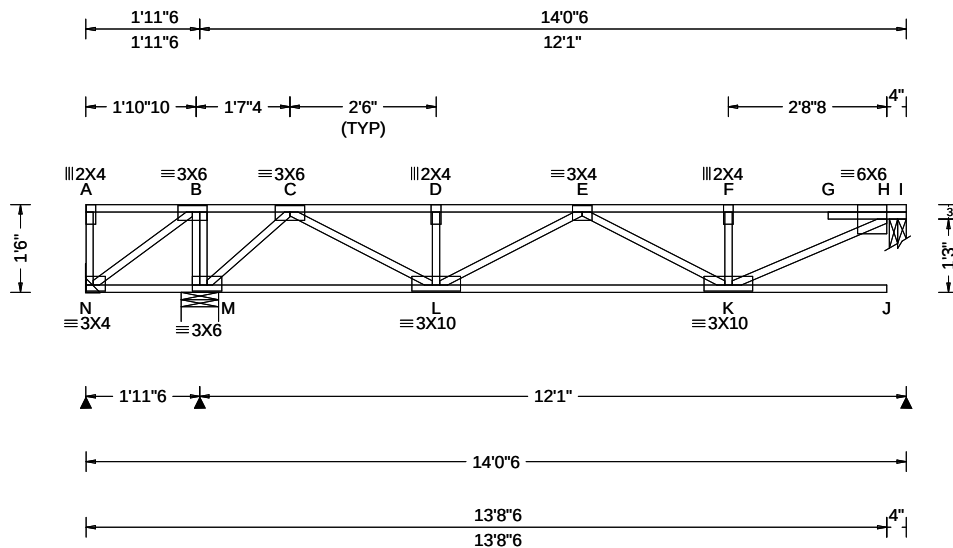
Lumber Top chord: 4x2 SPF #1/#2; Bot chord: 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2; Deflection Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCMB1014 for camber recommendations. Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less. Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 600 0 L - K 1318 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 685 0 C - L 693 0 B - M 0 -840 K - H 1201 0 M - C 0 -1141
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SEQN: 97186 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220677 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F16	Cust: R 9316 JRef: 1XdX93160004 T33 / DrwNo: 076.22.1315.42414 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.159 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.283 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - / -323 / - / - / - / - M 1131 / - / - / - / - / - I 547 / - / - / - / - / - N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	0 -469	L - K	1034 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	580 0	C - L	816 0
B - M	0 -512	K - H	1004 0
M - C	0 -842		



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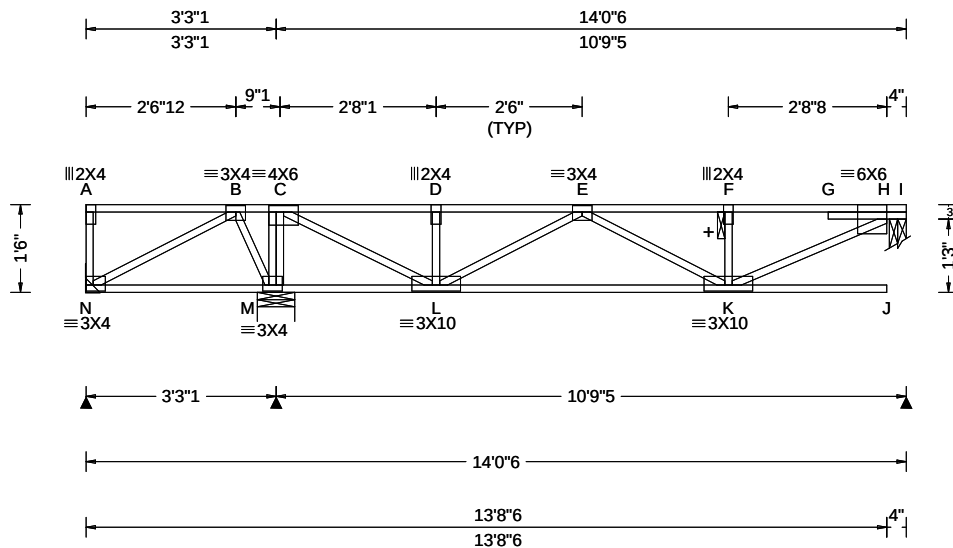
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Building 7

SEQN: 97188 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F17	Cust: R 9316 JRef:1XdX93160004 T20 / DrwNo: 076.22.1315.42976 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 870 480 VERT(CL): 0.233 J 550 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.749 Max BC CSI: 0.437 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 57 /-122 /- /- /- /- M 959 /- /- /- /- /- I 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

L - K 818 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

M - C 0 -627 K - H 874 0
C - L 963 0

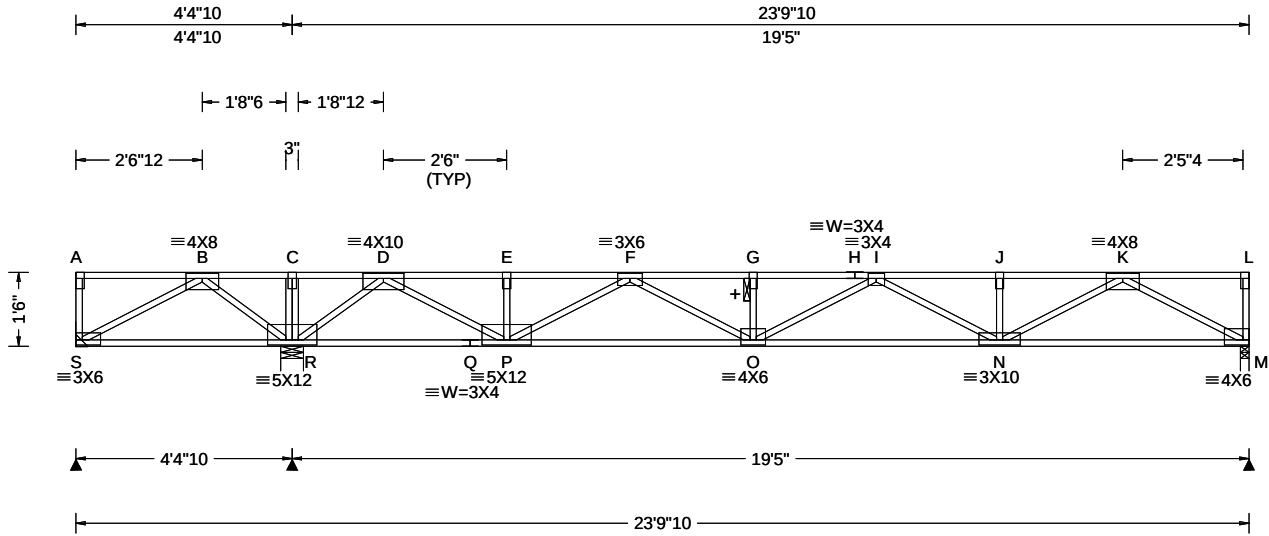


03/17/2022

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Suite 242
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SEQN: 97190 / FROM:	SY42 Ply: 1 Qty: 4	Job Number: JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F18	Cust: R 9316 JRef:1XdX93160004 T16 / DrwNo: 076.22.1315.41322 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 G 999 480 VERT(CL): 0.371 G 628 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.796 Max Web CSI: 0.466 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-458 /- /- /- /- R 1886 /- /- /- /- /- M 844 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Negative reaction(s) of -458# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	0 -955	P - O	1987 0
R - Q	0 -427	O - N	2580 0
Q - P	0 -427	N - M	1352 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - B	1084 0	F - O	631 0
B - R	0 -1117	I - N	0 -411
R - D	0 -1648	N - K	991 0
D - P	1653 0	K - M	0 -1535
P - F	0 -1085		



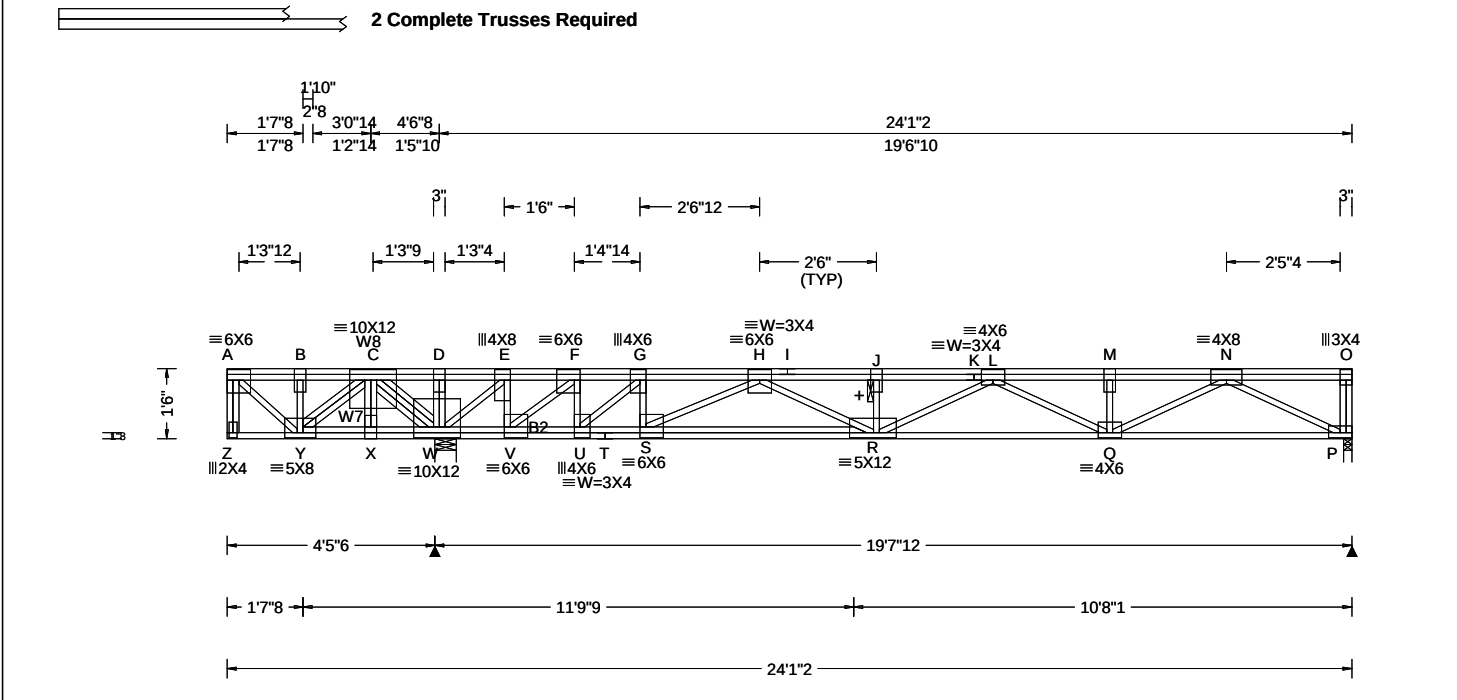
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SEQN: 97192 / FROM:	SY42 Qty: 2	Ply: 2	Job Number: JB-220677 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F18G	Cust: R 9316 JRef: 1XdX93160004 T17 / DrwNo: 076.22.1315.42597 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.124 Z 435 480 VERT(CL): 0.263 Z 204 360 HORZ(LL): -0.027 A - - HORZ(TL): 0.058 A - - Creep Factor: 2.0 Max TC CSI: 0.885 Max BC CSI: 0.247 Max Web CSI: 0.249 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL W 8317 -/- /- /- /- /- P 962 -/-165 /- /- /- /- W Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings W & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 420 0 H - I 1554 -1705 B - C 420 0 I - J 1554 -1705 C - D 4753 0 J - K 1551 -1711 D - E 4749 0 K - L 1551 -1711 E - F 4209 -367 L - M 534 -1347 F - G 3615 -827 M - N 534 -1347 G - H 3087 -1193

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7, W8 4x2 DF-L 2400f-2.0E;

Special Loads
----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes
All plates are 3X6 except as noted.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Y - X	0 -1228	T - S	1169 -3130
X - W	0 -1219	S - R	1563 -2265
W - V	329 -4254	R - Q	1631 -993
V - U	793 -3663	Q - P	784 -222
U - T	1169 -3130		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - Y	0 -548	G - S	539 0
Y - C	1053 0	S - H	0 -1139
C - W	0 -4787	H - R	869 0
W - E	0 -999	R - L	89 -626
E - V	636 0	L - Q	518 -321
V - F	0 -1035	Q - N	636 -353
F - U	652 0	N - P	250 -860
U - G	0 -919		

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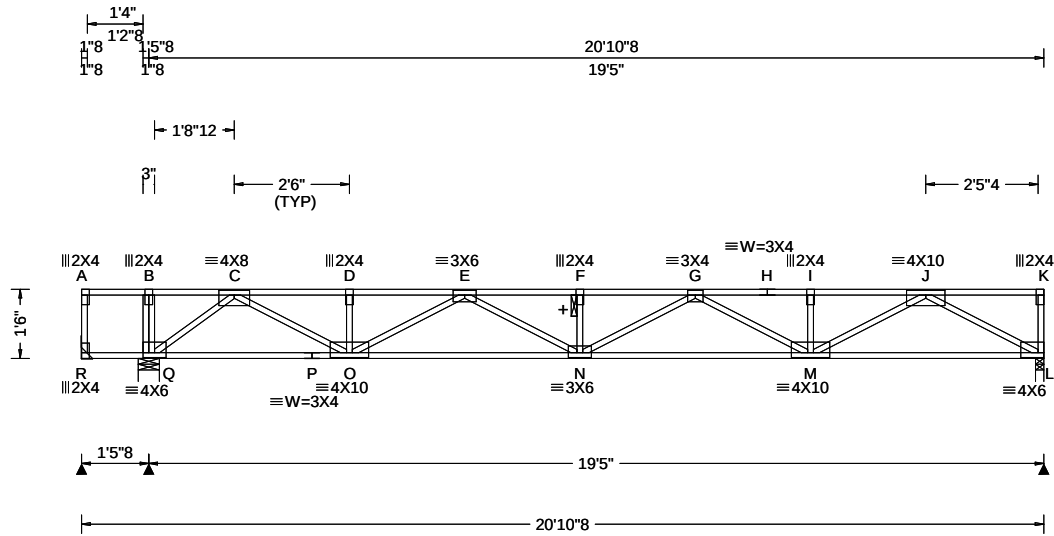
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Building 7

SEQN: 9796 / FROM:	SY42 Qty: 24	Ply: 1 Qty: 24	Job Number: JB-220677 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F19	Cust: R 9316 JRef: 1XdX93160004 T34 / DrwNo: 076.22.1315.55011 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.246 F 943 480 VERT(CL): 0.462 F 502 360 HORZ(LL): 0.038 L - - HORZ(TL): 0.072 L - - Creep Factor: 2.0 Max TC CSI: 0.485 Max BC CSI: 0.960 Max Web CSI: 0.397 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 27 /-42 /- /- /- /- Q 1134 /- /- /- /- /- L 962 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Q - P	1089 0	N - M	3224 0
P - O	1089 0	M - L	1570 0
O - N	3055 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q - C	0 - 1383	G - M	0 - 654
C - O	1407 0	M - J	1233 0
O - E	0 - 839	J - L	0 - 1782
E - N	387 0		



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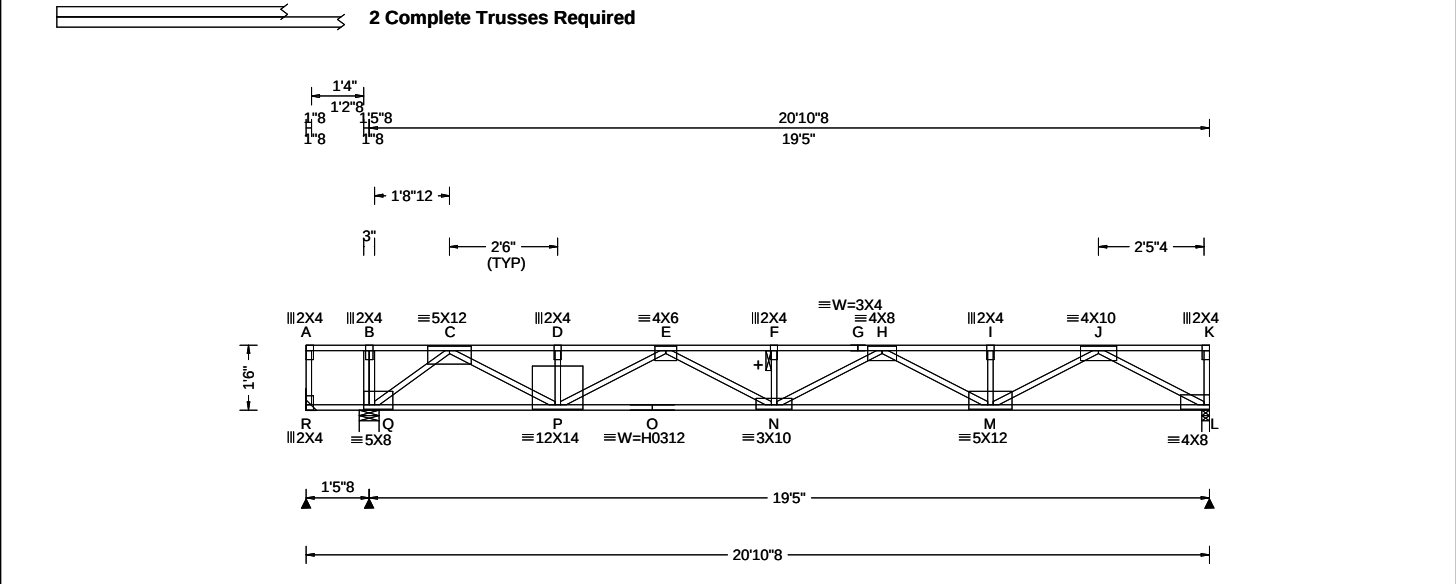
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCEA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

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Suite 242
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SEQN: 9798 / FROM:	SY42 Qty: 4	Ply: 2 Qty: 4	Job Number: JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F19G	Cust: R 9316 JRef:1XdX93160004 T8 / DrwNo: 076.22.1315.54878 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.290 F 799 480 VERT(CL): 0.545 F 426 360 HORZ(LL): 0.041 C - - HORZ(TL): 0.076 C - - Creep Factor: 2.0 Max TC CSI: 0.583 Max BC CSI: 0.585 Max Web CSI: 0.629 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 24 /-58 /- /- /- /- Q 3942 /- /- /- /- /- L 1997 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 DF-L 2400f-2.0E; Bot chord: 4x2 DF-L 2400f-2.0E; Webs: 4x2 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. Q - P 1835 0 N - M 4478 0 P - O 4877 0 M - L 1748 0 O - N 4877 0
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Special Loads ----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00) TC: From 87 plf at 0.00 to 87 plf at 20.88 BC: From 13 plf at 0.00 to 13 plf at 20.88 TC: 443 lb Conc. Load at 0.94 TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. B - Q 0 -465 F - N 0 -473 Q - C 0 -2340 N - H 753 0 C - P 2229 0 H - M 0 -1437 D - P 0 -467 M - J 1679 0 P - E 0 -1242 J - L 0 -1984
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Deflection Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCMB1014 for camber recommendations.	Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 0 -3789 G - H 0 -5138 D - E 0 -3789 H - I 0 -3219 E - F 0 -5138 I - J 0 -3219 F - G 0 -5138
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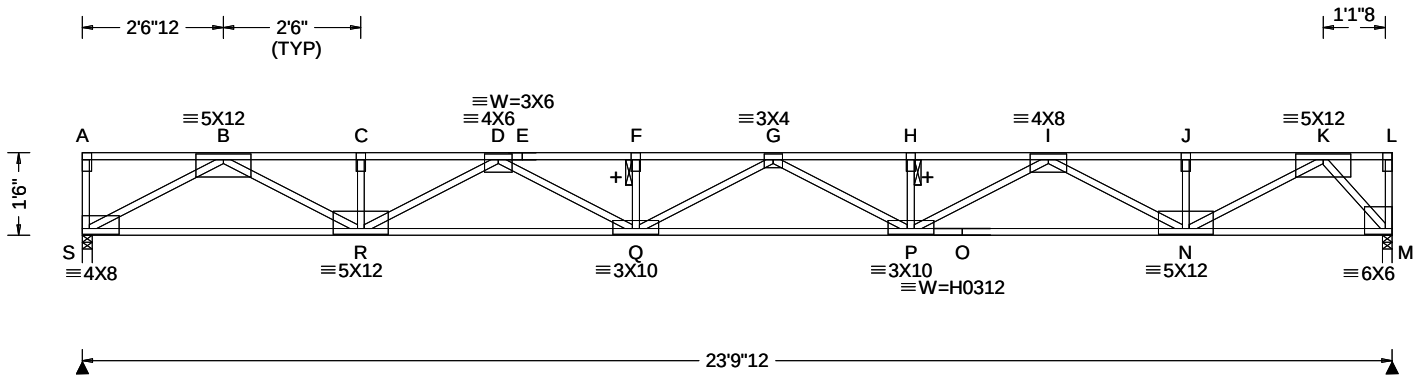
Additional Notes See DWG CNSY42PL0118 for connection details of 2 ply trusses. + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. Q - P 1835 0 N - M 4478 0 P - O 4877 0 M - L 1748 0 O - N 4877 0
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03/17/2022

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SEQN: 97194 / FROM:	SY42 Qty: 32	Ply: 1 Qty: 32	Job Number: JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F21	Cust: R 9316 JRef:1XdX93160004 T19 / DrwNo: 076.22.1315.41247 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.419 G 682 480 VERT(CL): 0.785 G 364 360 HORZ(LL): 0.056 M - - HORZ(TL): 0.104 M - - Creep Factor: 2.0 Max TC CSI: 0.442 Max BC CSI: 0.664 Max Web CSI: 0.556 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1191 /- /- /- /- /- M 1191 /- /- /- /- /- S Brg Wid = 2.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3491 G - H 0 - 4826 C - D 0 - 3491 H - I 0 - 4826 D - E 0 - 5062 I - J 0 - 2773 E - F 0 - 5062 J - K 0 - 2773 F - G 0 - 5062

Lumber Top chord: 4x2 SPF 2100f-1.8E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;	Plating Notes All plates are 2X4 except as noted.	Deflection Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. S - R 1995 0 P - O 4000 0 R - Q 4479 0 O - N 4000 0 Q - P 5145 0 N - M 1047 0
				Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - B 0 - 2264 P - I 942 0 B - R 1707 0 I - N 0 - 1401 R - D 0 - 1127 N - K 1969 0 D - Q 665 0 K - M 0 - 1557



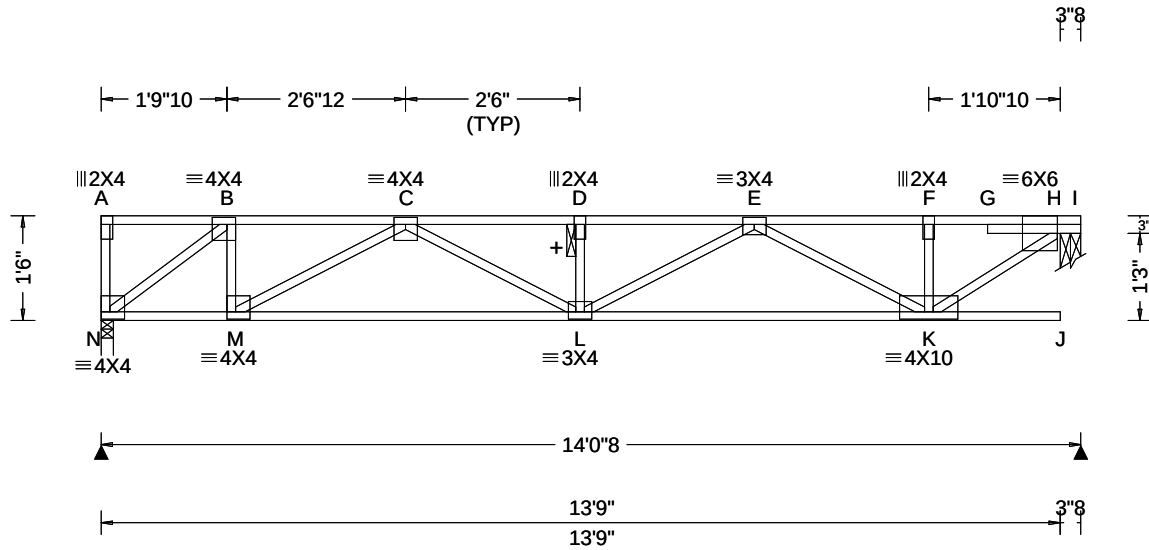
03/17/2022

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SEQN: 97196 /	SY42	Ply: 1	Job Number: JB-220677	Cust: R 9316 JRef:1XdX93160004 T2 /
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 076.22.1315.43294
			Truss Label: F22	/ NDW 03/17/2022

Building 7

SEQN: 97198 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220677 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F23	Cust: R 9316 JRef: 1XdX93160004 T25 / DrwNo: 076.22.1315.41681 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.092 D 999 480 VERT(CL): 0.172 D 970 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.613 Max BC CSI: 0.522 Max Web CSI: 0.325 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 694 /- /- /- /- /- H 707 /- /- /- /- /- N Brg Wid = 2.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -869 E - F 0 -931 C - D 0 -1793 F - H 0 -930 D - E 0 -1793

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	831	L - K	1548
M - L	1525		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1045	E - K	0 -704
B - M	425	K - H	1152
M - C	0 -752		0



03/17/2022

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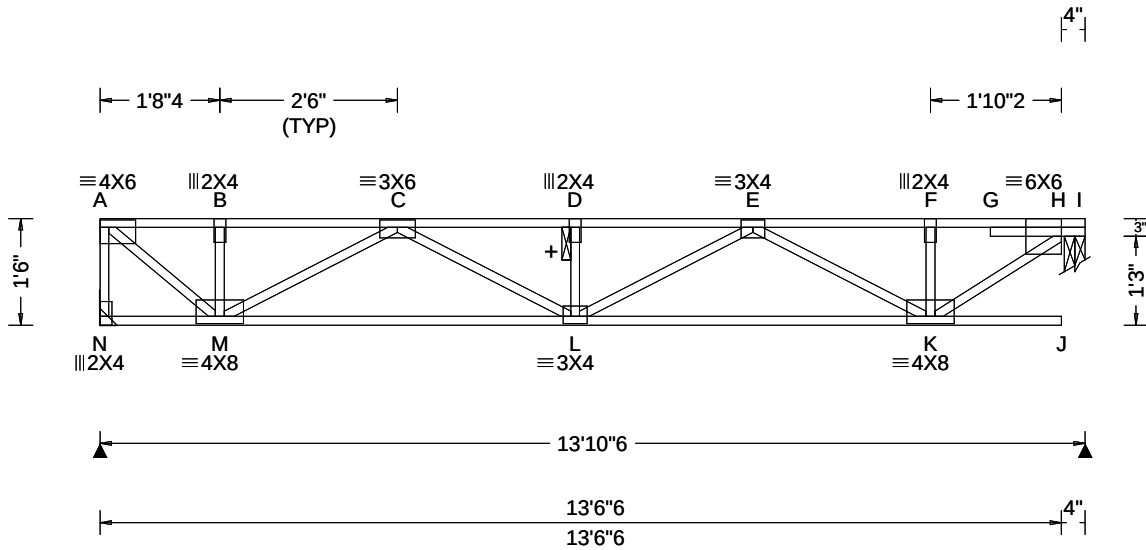
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Building 7

SEQN: 97200 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220677 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F24	Cust: R 9316 JRef: 1XdX93160004 T3 / DrwNo: 076.22.1315.41324 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.090 D 999 480 VERT(CL): 0.167 D 982 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.604 Max BC CSI: 0.513 Max Web CSI: 0.320 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 685 /- /- /- /- /- H 697 /- /- /- /- /- N Brg Wid = - Min Req = - H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -776 D - E 0 -1749 B - C 0 -776 E - F 0 -917 C - D 0 -1749 F - H 0 -916

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1463 0	L - K	1518 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -684	E - K	0 -687
A - M	1001 0	K - H	1134 0
M - C	0 -784		



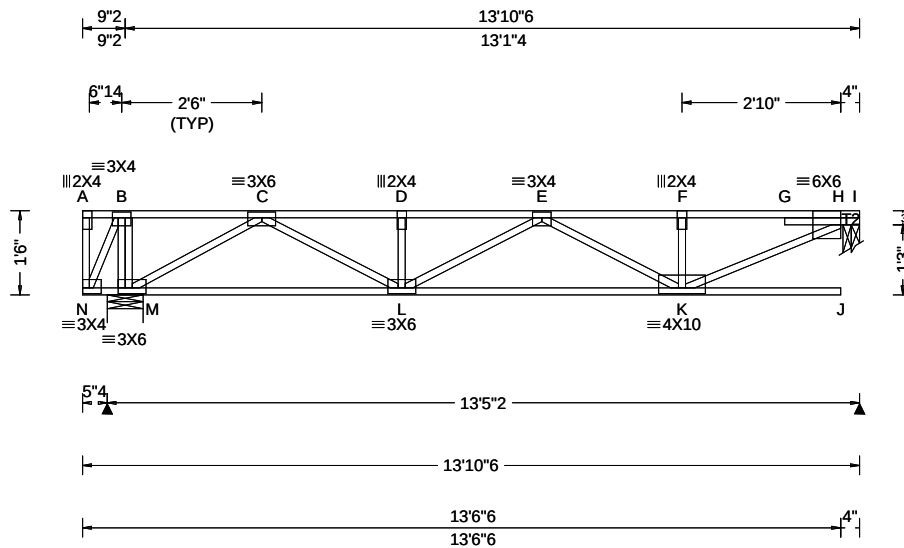
03/17/2022

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Building 7

SEQN: 97202 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F25	Cust: R 9316 JRef:1XdX93160004 T11 / DrwNo: 076.22.1315.42035 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 J 784 480 VERT(CL): 0.316 J 488 360 HORZ(LL): 0.013 A - - HORZ(TL): 0.024 A - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.630 Max Web CSI: 0.367 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL M 729 /- /- /- /- /- H 659 /- /- /- /- /- M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 0 -1447 E - F 0 -1177 D - E 0 -1447 F - H 0 -1178

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	912	L - K	1482
	0		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
M - C	0	K - H	1301
C - L	614		0



03/17/2022

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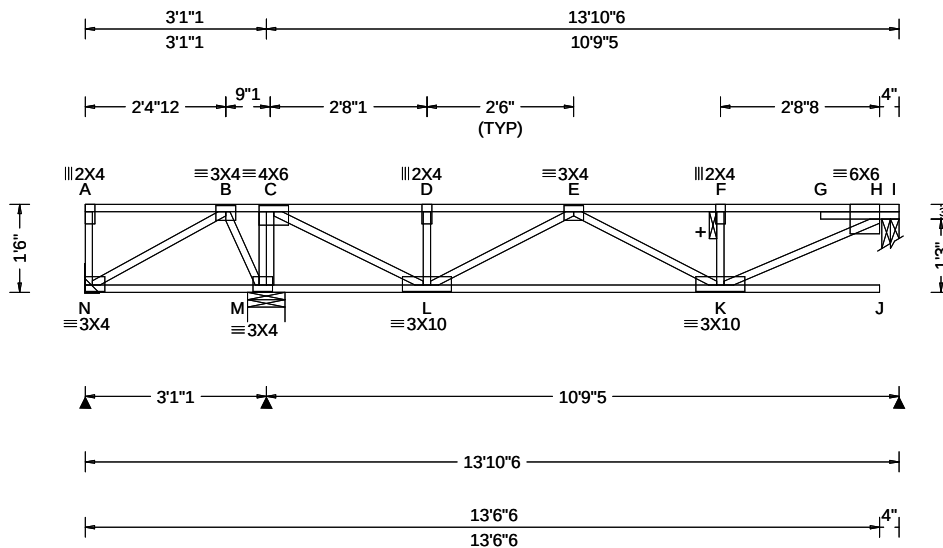
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Suite 242
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SEQN: 97206 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220677 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F27	Cust: R 9316 JRef: 1XdX93160004 T9 / DrwNo: 076.22.1315.41325 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 869 480 VERT(CL): 0.233 J 549 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.748 Max BC CSI: 0.436 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 44 /-139 /- /- /- /- M 963 /- /- /- /- /- H 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

L - K 815 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

M - C 0 -633 K - H 872 0
C - L 964 0



03/17/2022

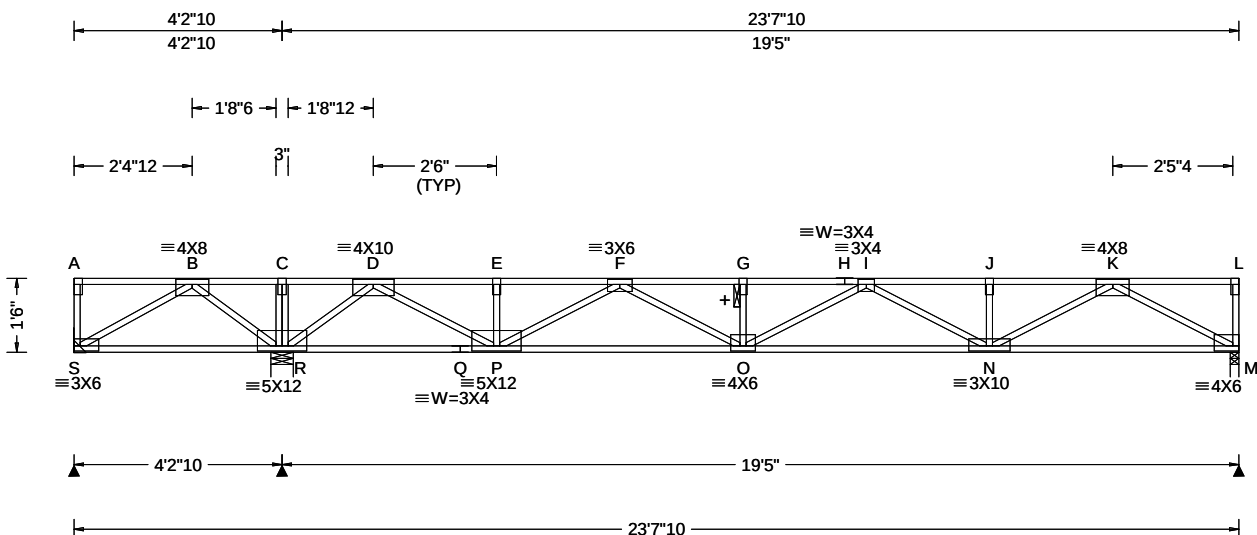
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SEQN: 97208 /	SY42	Ply: 1	Job Number: JB-220677	Cust: R 9316 JRef:1XdX93160004 T10 /
FROM:		Qty: 4	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 076.22.1315.41343
			Truss Label: F28	/ NDW 03/17/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.196 G 999 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.369 G 630 360	S - - /-490 /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.021 M - -	R 1906 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.039 M - -	M 843 /- /- /- /- /-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	S Brg Wid = - Min Req = -
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.660	R Brg Wid = 5.5 Min Req = 1.5 (Truss)
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.795	M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.467	Bearings R & M are a rigid surface.
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Members not listed have forces less than 375#
	Loc. from endwall: NA	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	I: NA GCpi: NA		VIEW Ver: 21.02.00.1005.17	Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: NA	WAVE		

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2:

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

B - C	1763	0	G - H	0	-2527
C - D	1763	0	H - I	0	-2527
D - E	0	-1026	I - J	0	-2216
E - F	0	-1026	J - K	0	-2216
F - G	0	-2527			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	0 - 944	P - O	1976
R - Q	0 - 440	O - N	2573
Q - P	0 - 440	N - M	1350

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - B	1088 0	F - O	633 0
B - R	0 -1142	I - N	0 -408
R - D	0 -1649	N - K	988 0
D - P	1656 0	K - M	0 -1532
P - F	0 -1087		



03/17/2022

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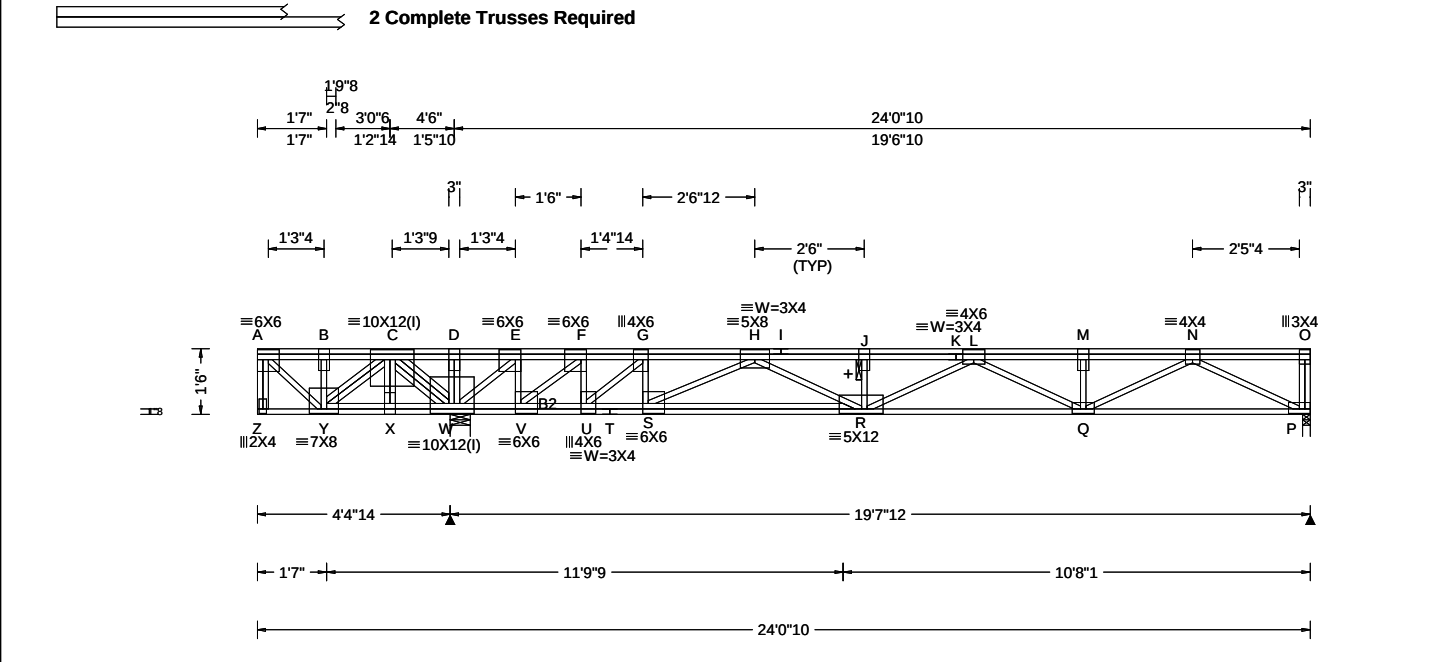
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SEQN: 97210 / FROM:	SY42 Qty: 2	Ply: 2 Qty: 2	Job Number: JB-220677 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F28G	Cust: R 9316 JRef:1XdX93160004 T12 / DrwNo: 076.22.1315.41306 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.120 A 443 480 VERT(CL): 0.268 Z 198 360 HORZ(LL): -0.025 A - - HORZ(TL): 0.057 A - - Creep Factor: 2.0 Max TC CSI: 0.433 Max BC CSI: 0.260 Max Web CSI: 0.271 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL W 8750 /- /- /- /- /- P 618 /-243 /- /- /- /- W Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings W & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 597 0 H - I 1855 -383 B - C 597 0 I - J 1855 -383 C - D 5342 0 J - K 1853 -389 D - E 5337 0 K - L 1853 -389 E - F 4767 0 L - M 685 -689 F - G 4126 0 M - N 685 -689 G - H 3551 0

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads
----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes
All plates are 3X6 except as noted.
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
Truss must be installed as shown with top chord up.

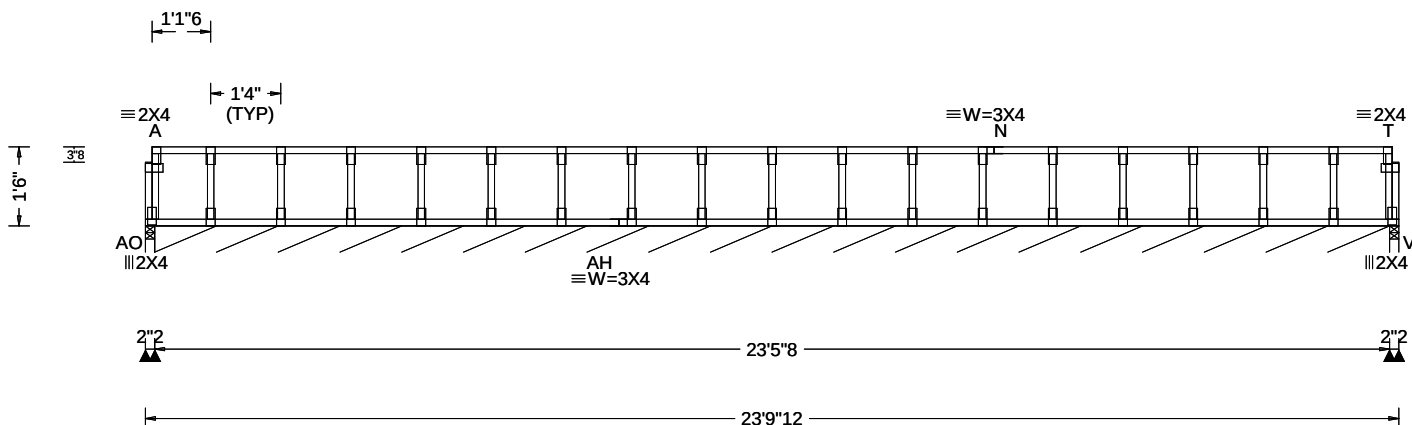


03/17/2022

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 514 Earth City Expressway Suite 242 Earth City, Missouri 63045			



SEQN: 97214 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220677 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: L21	Cust: R 9316 JRef: 1XdX93160004 T30 / DrwNo: 076.22.1315.42179 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.000 T 999 360 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.009 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity AO 48 -/-/-/-/-/- AO*97 -/-/-/-/-/-/- V 48 -/-/-/-/-/-/- AO Brg Wid = 2.1 Min Req = 1.5 (Truss) AO Brg Wid = 281 Min Req = - V Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AO, AO, & V are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.



03/17/2022

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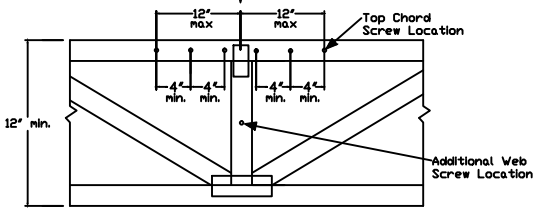
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ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

Max. Concentrated Load per Chart Below



Refer to Alpine sealed drawing for individual truss design.

Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

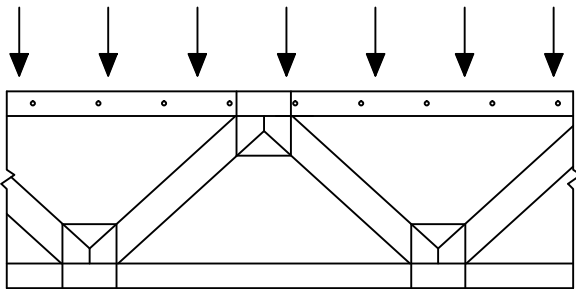
If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Max. Uniform Load per Chart Below



For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200



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For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org

TC LL	PSF	REF	SY42 Connection
TC DL	PSF	DATE	01/19/2018
BC DL	PSF	DRWG	CNSY42PL0118
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



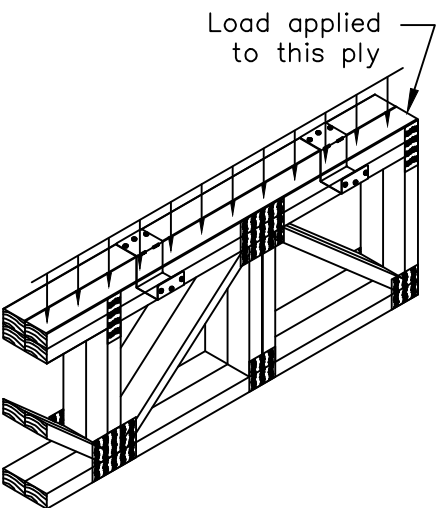
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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

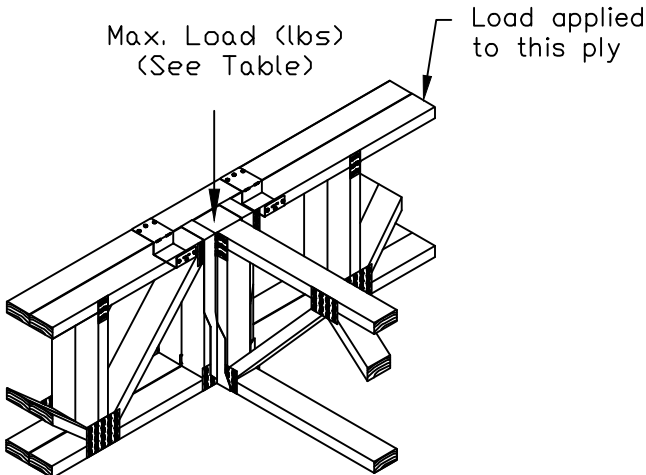
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application

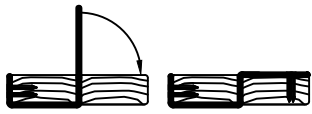


Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

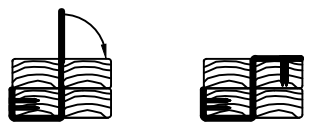
Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.
2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

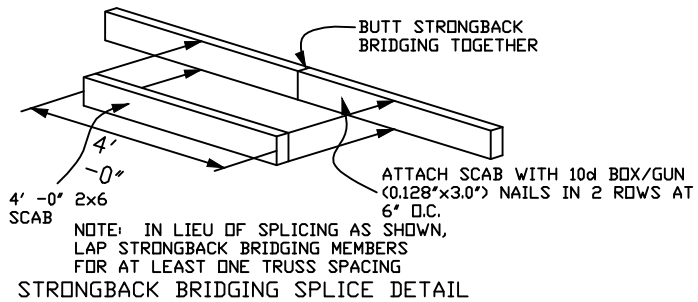


*****WARNING*** READ AND FOLLOW ALL NOTES ON THIS DRAWING**
*****IMPORTANT*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.
A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

DUR. FAC. ALL

REF SY42 Connection
DATE 10/01/14
DRWG LSCSYX2A1014

STRONGBACK BRIDGING RECOMMENDATIONS

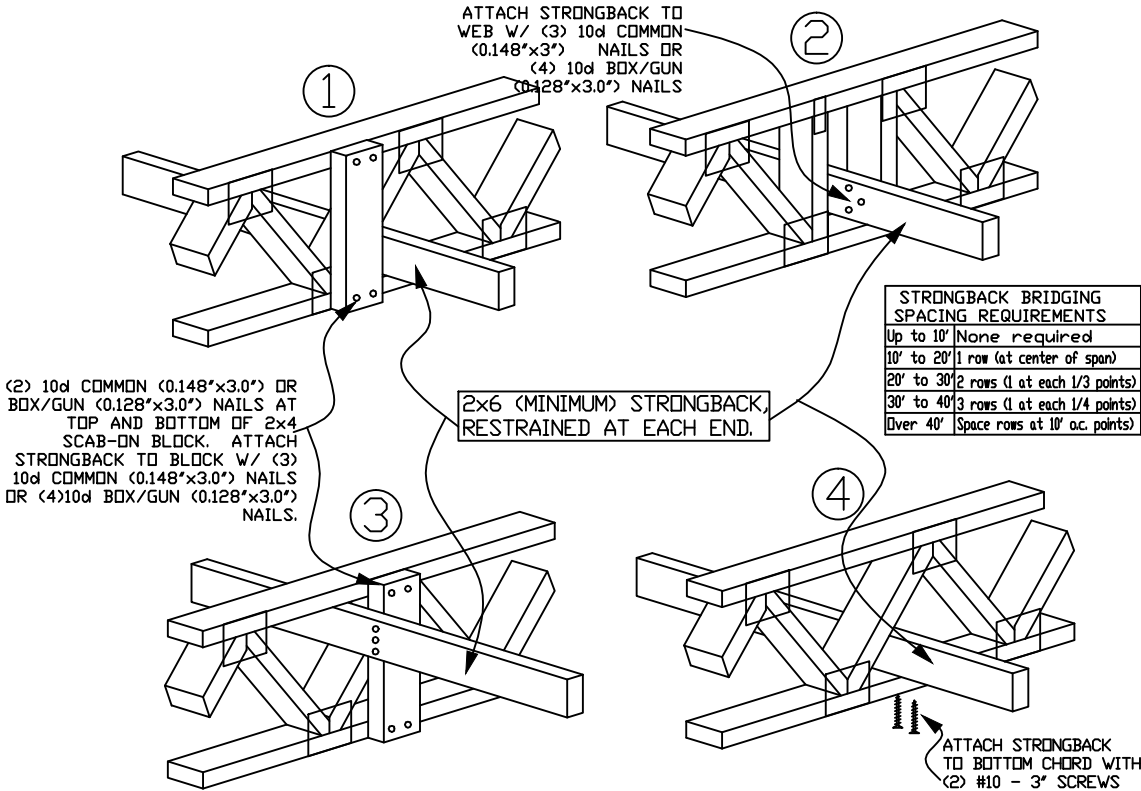


- ▶ All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- ▶ All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- ▶ The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- ▶ The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES



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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.
A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			



Structural Engineers – Since 1957

4338 Bellevue
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(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

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Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group Truss Roof Layout Shop Drawings	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

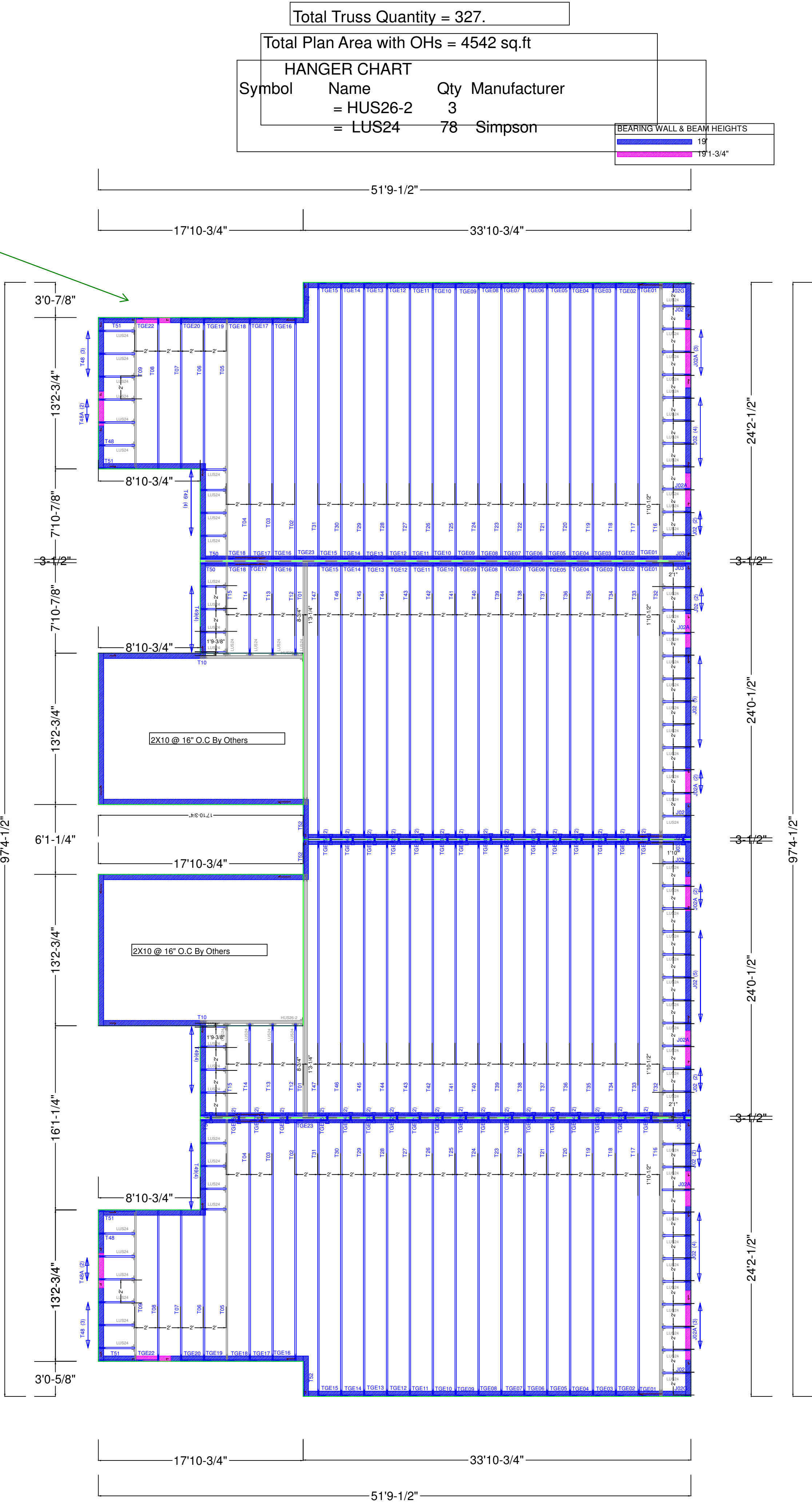
BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 7 Roof Layout

Revised per TR,i
comment



REVIEWED ☒ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/10/2022 BY: CB

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address:

2100 NW Lowenstein Dr
Lee's Summit
MO

Job Name:

McCambridge Brothers Construction

Designer:

Juan R Quiroz

Reference #:

JB-220680

Date:

4/29/2022

3853 S. Hales Rd.
Haleshead KS 67059
(316) 830-6108

NOTE: Yellow ID Tag Location Indicates
Left/Front/Bottom of Truss



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/29/2022

REVIEWED ☒ DATE RECIEVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/10/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220680
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:			
Design Code: IBC 2018		IntelliVIEW Version: 21.02.00	
		JRef #: 1Xf493160001	
Wind Standard: ASCE 7-16	Wind Speed (mph): 109	Design Loading (psf): 60.00	
Building Type: Closed			

This package contains general notes pages, 78 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss
1	119.22.1045.17004	J02
3	119.22.1045.11544	J03
5	119.22.1045.11757	T02
7	119.22.1045.13134	T04
9	119.22.1045.18745	T06
11	119.22.1045.16189	T10
13	119.22.1045.14670	T13
15	119.22.1045.11181	T15
17	119.22.1045.12917	T18
19	119.22.1045.12661	T20
21	119.22.1138.02307	T22
23	119.22.1045.17657	T24
25	119.22.1045.17413	T26
27	119.22.1045.11657	T28
29	119.22.1045.11241	T30
31	119.22.1045.15318	T33
33	119.22.1045.13333	T35
35	119.22.1045.19152	T37
37	119.22.1045.17045	T39
39	119.22.1045.14209	T41
41	119.22.1045.15203	T43
43	119.22.1045.15319	T45
45	119.22.1045.13631	T47
47	119.22.1045.17805	T49
49	119.22.1045.18104	T51

Item	Drawing Number	Truss
2	119.22.1045.11259	J02G
4	119.22.1045.16097	T01
6	119.22.1045.16783	T03
8	119.22.1045.11639	T05
10	119.22.1045.12233	T07
12	119.22.1045.11484	T12
14	119.22.1045.18947	T14
16	119.22.1137.59733	T17
18	119.22.1045.13493	T19
20	119.22.1045.13870	T21
22	119.22.1045.18996	T23
24	119.22.1045.11774	T25
26	119.22.1045.15870	T27
28	119.22.1045.14671	T29
30	119.22.1045.18726	T31
32	119.22.1045.13074	T34
34	119.22.1045.17312	T36
36	119.22.1045.16605	T38
38	119.22.1045.12606	T40
40	119.22.1045.15386	T42
42	119.22.1045.13791	T44
44	119.22.1045.12234	T46
46	119.22.1045.11448	T48
48	119.22.1045.16585	T50
50	119.22.1045.17870	T52



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/29/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	Job Number: JB-220680
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	119.22.1045.19374	TGE01
53	119.22.1045.18714	TGE03
55	119.22.1045.11614	TGE05
57	119.22.1045.12364	TGE07
59	119.22.1045.15525	TGE09
61	119.22.1045.18447	TGE11
63	119.22.1045.11869	TGE13
65	119.22.1045.17989	TGE15
67	119.22.1045.11239	TGE17
69	119.22.1045.12471	TGE19
71	119.22.1045.15712	TGE23
73	119.22.1137.57290	T16
75	119.22.1045.17584	T48A
77	119.22.1137.47423	T08
79	A11530ENC160118	
81	DEFLCAMB1014	
83	GBLLETIN0118	

Item	Drawing Number	Truss
52	119.22.1045.16463	TGE02
54	119.22.1045.18627	TGE04
56	119.22.1045.11275	TGE06
58	119.22.1045.12892	TGE08
60	119.22.1045.15991	TGE10
62	119.22.1045.11676	TGE12
64	119.22.1045.11274	TGE14
66	119.22.1045.11165	TGE16
68	119.22.1045.11436	TGE18
70	119.22.1045.11240	TGE20
72	119.22.1137.53167	T09
74	119.22.1138.04813	T32
76	119.22.1138.13900	TGE22
78	119.22.1045.12065	J02A
80	BRCLBSUB0119	
82	GABRST160118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)**Key to Terms:**

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

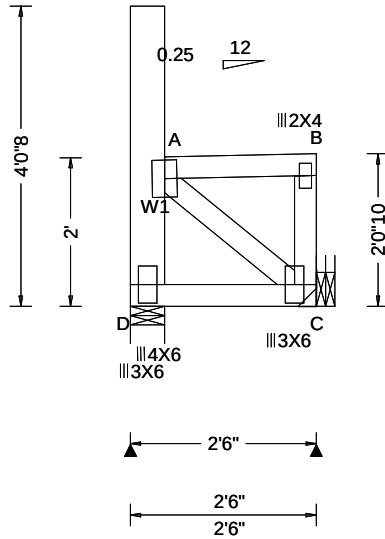
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 7

SEQN: 34728 / FROM:	MONO Ply: 1 Qty: 30	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: J02	Cust: R 9316 JRef: 1X1493160001 T193 DrwNo: 119.22.1045.17004 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.03 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.103 Max BC CSI: 0.066 Max Web CSI: 0.131 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 134 /- /- /101 /79 /90 C 160 /- /- /144 /63 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. A - C 238 -387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

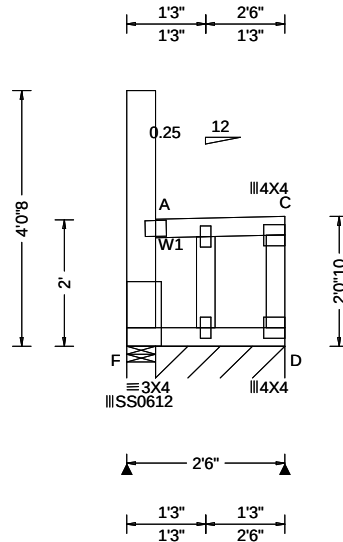


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Building 7

SEQN: 34606 / FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: J02G	Cust: R 9316 JRef: 1X1493160001 T109 DrwNo: 119.22.1045.11259 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	F	42	/-	/-	/118	/145	/98
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.005 A 999 360	D*	124	/-	/-	/120	/57	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.007 A 999 240	Wind reactions based on MWFRS						
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.091 A - -	F Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.104 A - -	D Brg Wid = 24.5 Min Req = -						
NCBCLL: 0.00	Mean Height: 21.03 ft	Building Code:	Creep Factor: 2.0	Bearings F & F are a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.128	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.370							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.163							
	C&C Dist a: 3.00 ft	FT/RT: 20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCp: 0.18	18SS, WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.

End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, &
GABRST160118 for gable wind bracing and other
requirements.

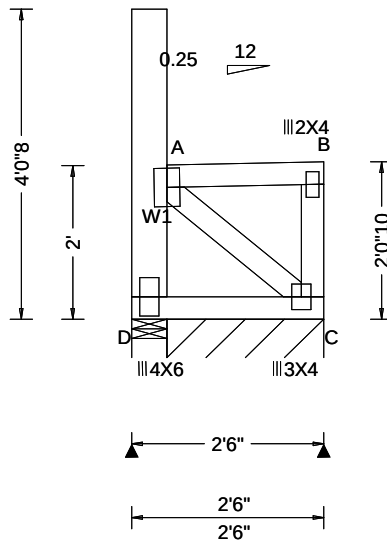
Truss must be installed as shown with top chord up.



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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34607 / FROM:	MONO Ply: 1 Qty: 6	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: J03	Cust: R 9316 JRef: 1Xf493160001 T133 DrwNo: 119.22.1045.11544 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=-PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	D 134 /- /- /110 /85 /98
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	C* 79 /- /- /72 /33 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.03 ft	Building Code:	Creep Factor: 2.0	D Brg Wid = 5.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.103	C Brg Wid = 24.5 Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.066	Bearings D & D are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.105	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		
	GCpi: 0.18	WAVE		
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

All plates are 3X6 except as noted.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	2.03	30.67
					2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Truss must be installed as shown with top chord up.



04/29/2022

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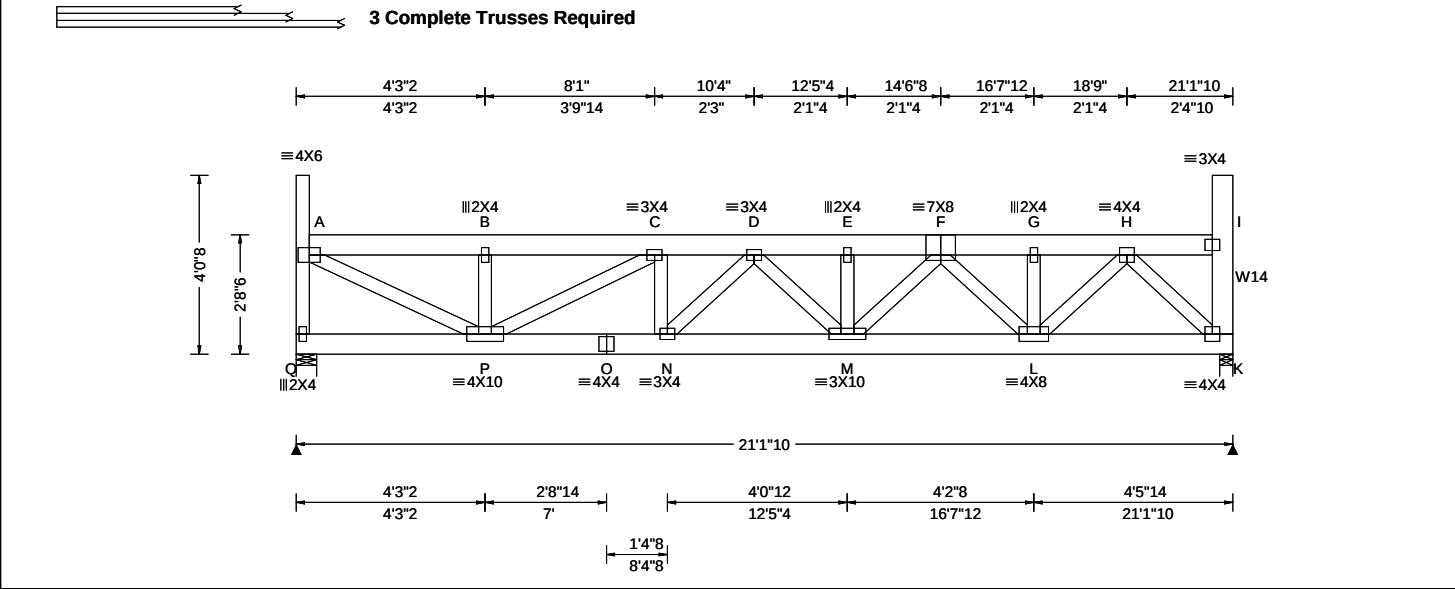
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SEQN: 34681 / FROM:	FLAT Ply: 3 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T01	Cust: R 9316 JRef:1Xf493160001 T10 / DrwNo: 119.22.1045.16097 / NDW 04/29/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)					
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg:	20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#		Gravity			Non-Gravity		
TCDL:	15.00	Speed:	109 mph	Pf:	15.4 Ce: 1.0	VERT(LL): 0.060 D 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
BCCL:	15.00	Enclosure:	Closed	Lu:	- Cs: 1.00	VERT(CL): 0.102 D 999 240		Q	1828	-/-	-/-	-/-	/117 -/-
BCDL:	10.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL): 0.014 K - -		K	2145	-/-	-/-	-/-	/150 -/-
Des Ld:	60.00	EXP:	B Kzt: NA			HORZ(TL): 0.024 K - -		Wind reactions based on MWFRS					
NCBCLL:	0.00	Mean Height:	21.70 ft			Creep Factor: 2.0		Q Brg Wid = 5.5 Min Req = 1.5 (Truss)					
Soffit:	2.00	TCDL:	5.0 psf			Max TC CSI: 0.049		K Brg Wid = 3.5 Min Req = 1.5 (Truss)					
Load Duration:	1.15	BCDL:	3.0 psf			Max BC CSI: 0.262		Bearings Q & K are a rigid surface.					
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2			Max Web CSI: 0.269		Members not listed have forces less than 375#					
		C&C Dist a:	3.00 ft					Maximum Top Chord Forces Per Ply (lbs)					
		Loc. from endwall:	not in 14.50 ft					Chords Tens.Comp. Chords Tens. Comp.					
		GCpi:	0.18										
		Wind Duration:	1.60										
				Building Code:		VIEW Ver: 21.02.00.1005.17							
				IBC 2018									
				TPI Std: 2014									
				Rep Fac: Yes									
				FT/RT:20(0)/10(0)									
				Plate Type(s):									
				WAVE									

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 50 plf at 0.00 to 50 plf at 21.14
BC: 1489 lb Conc. Load at 12.90

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 20.39 1.34 13.80 3.32
20.68 0.00 20.39 1.34 13.80 3.32
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

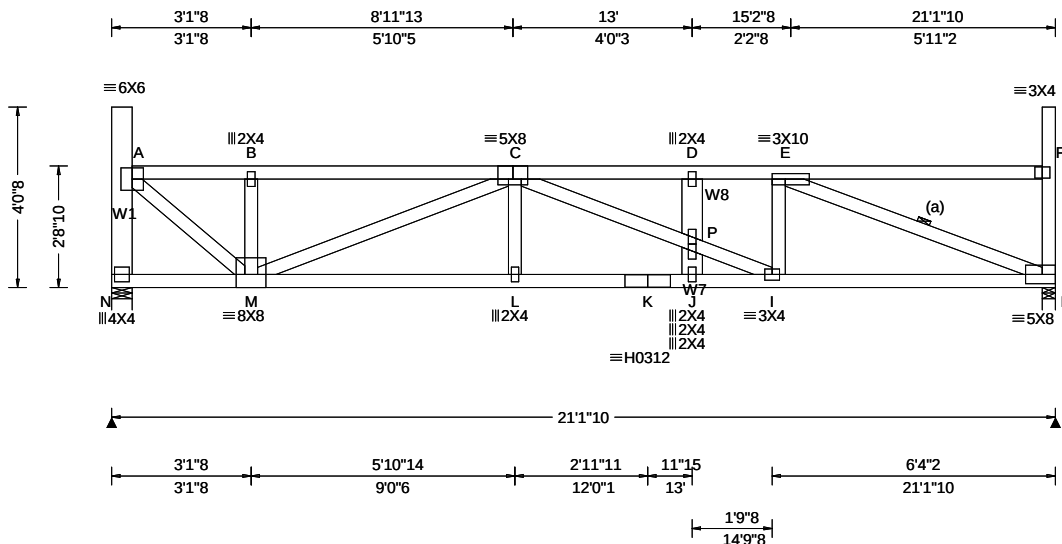


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34608 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T02	Cust: R 9316 JRef:1X1493160001 T1 / DrwNo: 119.22.1045.11757 / NDW 04/29/2022
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Loading Criteria (psf)
TCLL: 20.00
TCCL: 15.00
BCCL: 15.00
BCDL: 10.00

Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.72 ft
TCCL: 5.0 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCp: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Snow Criteria (Pg,Pf in PSF)
Building Code: IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT:20(0)/10(0)
Plate Type(s): WAVE, HS

Defl/CSI Criteria
PP Deflection in loc L/def L/#
VERT(LL): 0.155 D 999 360
VERT(CL): 0.266 D 953 240
HORZ(LL): 0.046 H - -
HORZ(TL): 0.079 H - -
Creep Factor: 2.0
Max TC CSI: 0.427
Max BC CSI: 0.928
Max Web CSI: 0.991

VIEW Ver: 21.02.00.1005.17

Maximum Reactions (lbs)
Gravity
Loc R+ / R- / Rh / Rw / U / RL
N 1234 - / - / - / 534 / 72 / 120
H 1246 - / - / - / 539 / 74 / -

Maximum Reactions (lbs)
Non-Gravity
Loc R+ / R- / Rh / Rw / U / RL
N 1234 - / - / - / 534 / 72 / 120
H 1246 - / - / - / 539 / 74 / -

Maximum Top Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
A - B 136 - 1501 C - D 137 - 2445
B - C 136 - 1498 D - E 137 - 2445

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
M - L 2806 - 236 J - I 2806 - 236
L - K 2806 - 236 I - H 2383 - 154
K - J 2806 - 236

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
N - A 76 - 1190 P - I 94 - 403
A - M 1788 - 116 I - E 524 - 3
M - C 127 - 1414 E - H 166 - 2524
C - P 93 - 386

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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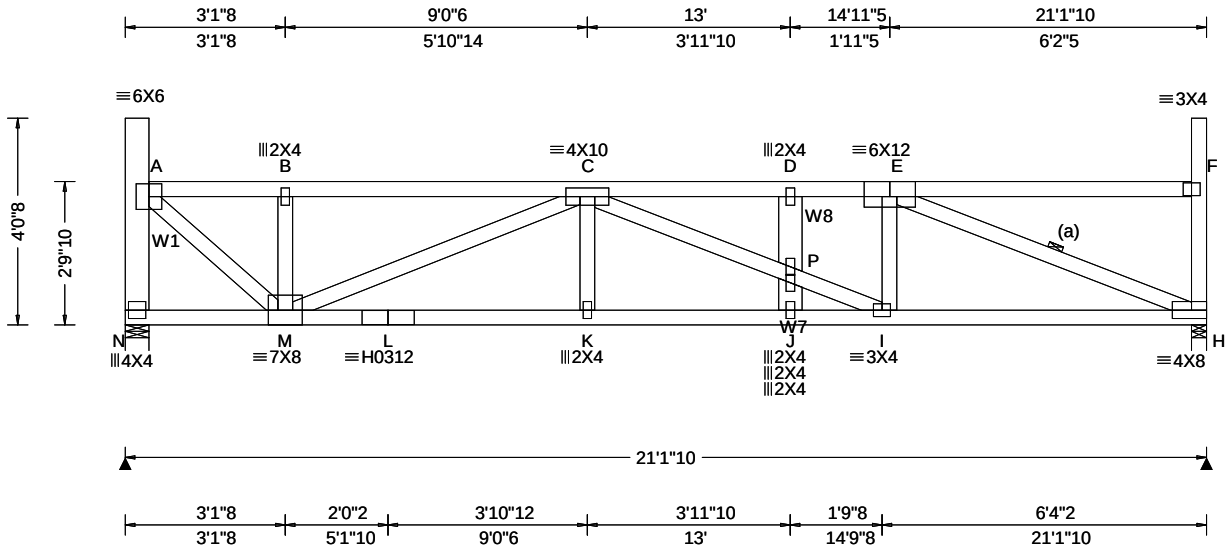
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

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SEQN: 34610 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T04	Cust: R 9316 JRef:1X1493160001 T3 / DrwNo: 119.22.1045.13134 / NDW 04/29/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)														
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity			Non-Gravity											
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.147 D 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL								
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.242 D 999 240		N	1236	/-	/-	/534	/73	/118								
BCDL: 10.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.045 H - -		H	1248	/-	/-	/538	/75	/-								
Des Ld: 60.00		EXP: B Kzt: NA				HORZ(TL): 0.076 H - -		Wind reactions based on MWFRS														
NCBCLL: 0.00		Mean Height: 21.80 ft				Creep Factor: 2.0		N Brg Wid = 5.5 Min Req = 1.9 (Truss)														
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.438		H Brg Wid = 3.5 Min Req = 2.0 (Truss)														
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.913		Bearings N & H are a rigid surface.														
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		Building Code:		Max Web CSI: 0.979		Members not listed have forces less than 375#														
		C&C Dist a: 3.00 ft		IBC 2018				Maximum Top Chord Forces Per Ply (lbs)														
		Loc. from endwall: Any		TPI Std: 2014				Chords			Tens.Comp.			Chords			Tens. Comp.					
		GCpi: 0.18		Rep Fac: Yes		Plate Type(s):																
		Wind Duration: 1.60		FT/RT:20(0)/10(0)		WAVE, HS		VIEW Ver: 21.02.00.1005.17			A - B			132 - 1454			C - D			159 - 2365		
				GCpi: 0.18							B - C			131 - 1450			D - E			159 - 2365		

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.24 10.35 2.50
20.84 0.00 20.39 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

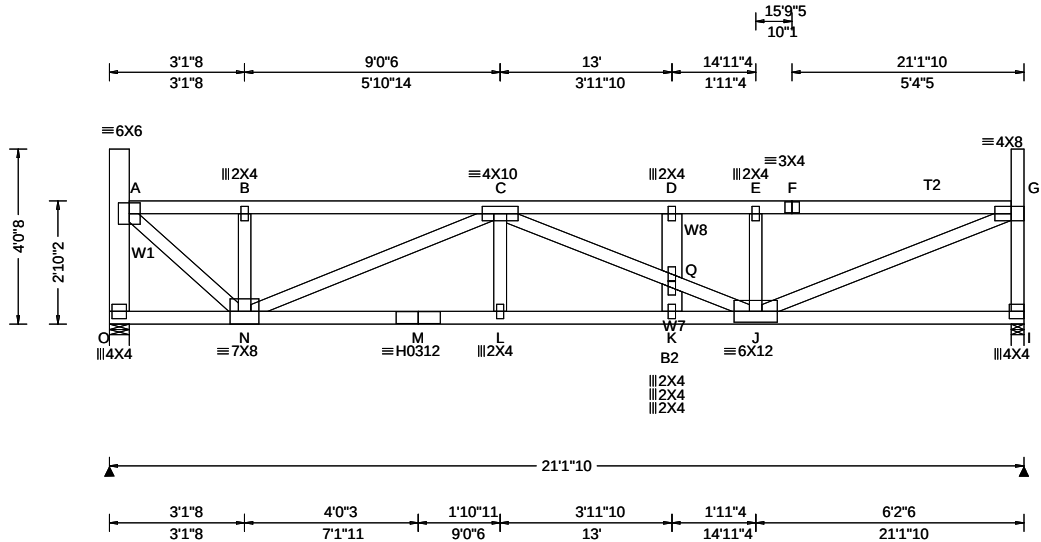
Additional Notes
Truss must be installed as shown with top chord up.



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SEQN: 34675 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T05	Cust: R 9316 JRef:1X1493160001 T11 / DrwNo: 119.22.1045.11639 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.84 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.133 D 999 360 VERT(CL): 0.228 D 999 240 HORZ(LL): 0.032 A - - HORZ(TL): 0.054 A - - Creep Factor: 2.0 Max TC CSI: 0.501 Max BC CSI: 0.806 Max Web CSI: 0.977 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL O 1236 - / - / - /533 /73 /117 I 1248 - / - / - /538 /75 - /- Wind reactions based on MWFRS O Brg Wid = 5.5 Min Req = 1.9 (Truss) I Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings O & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 130 -1427 D - E 158 -2312 B - C 129 -1424 E - F 157 -2308 C - D 158 -2312 F - G 159 -2317

Lumber
Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.20 8.97 2.16
20.84 0.00 20.39 1.20 8.97 2.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



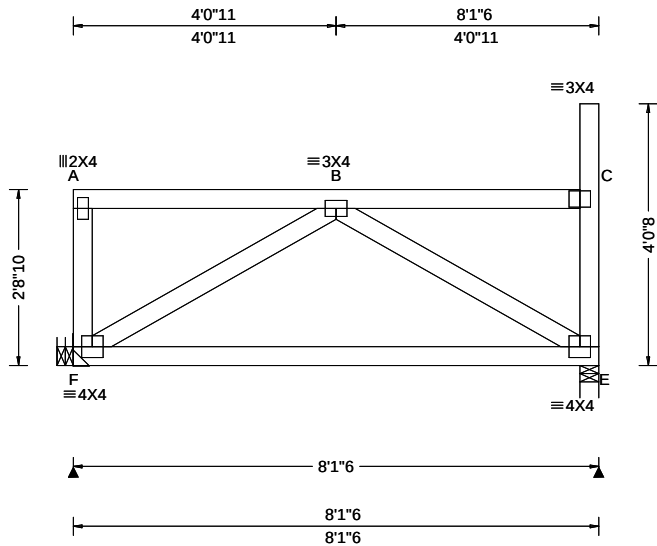
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34614 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T12	Cust: R 9316 JRef:1X1493160001 T210 DrwNo: 119.22.1045.11484 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.005 B 999 360 VERT(CL): 0.008 B 999 240 HORZ(LL): 0.002 E - - HORZ(TL): 0.004 E - - Creep Factor: 2.0 Max TC CSI: 0.216 Max BC CSI: 0.818 Max Web CSI: 0.203 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL F 487 /- /- /229 /43 /92 E 467 /- /- /214 /45 /- Non-Gravity Wind reactions based on MWFRS F Brg Wid = - Min Req = - E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing E is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	7.82	0.00	20.00	1.32	13.12 3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

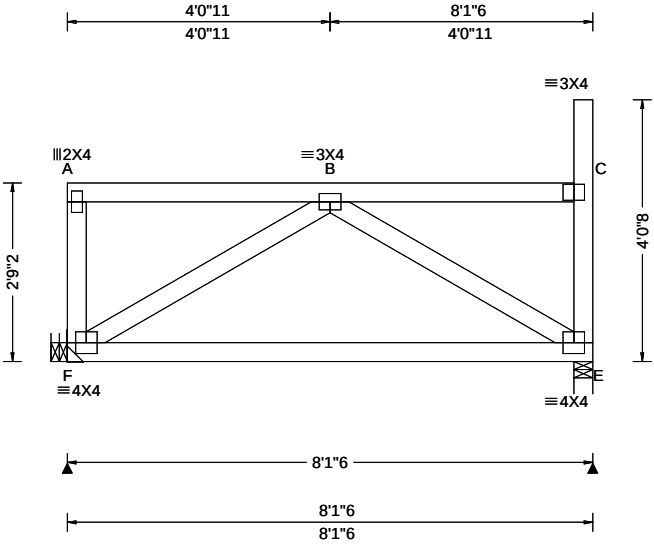


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Building 7

SEQN: 34615 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T13	Cust: R 9316 JRef:1X1493160001 T126 DrwNo: 119.22.1045.14670 / NDW 04/29/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)	
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in loc L/def L/#	Gravity	Non-Gravity	Loc	R+ / R- / Rh / Rw / U / RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4	Ce: 1.0		VERT(LL): 0.005 B 999 360			F	487 /- /- /229 /44 /91
BCLL: 15.00	Enclosure: Closed	Lu: -	Cs: 1.00		VERT(CL): 0.008 B 999 240			E	467 /- /- /214 /45 /-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15			HORZ(LL): 0.002 E - -			Wind reactions based on MWFRS	
Des Ld: 60.00	EXP: B Kzt: NA				HORZ(TL): 0.004 E - -			F	Brg Wid = - Min Req = -
NCBCLL: 0.00	Mean Height: 21.76 ft			Building Code:	Creep Factor: 2.0			E	Brg Wid = 3.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf			IBC 2018	Max TC CSI: 0.216			Bearing E is a rigid surface.	
Load Duration: 1.15	BCDL: 3.0 psf			TPI Std: 2014	Max BC CSI: 0.817			Members not listed have forces less than 375#	
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2			Rep Fac: Yes	Max Web CSI: 0.203				
	C&C Dist a: 3.00 ft			FT/RT:20(0)/10(0)					
	Loc. from endwall: Any			Plate Type(s):					
	GCpi: 0.18			WAVE					
	Wind Duration: 1.60				VIEW Ver: 21.02.00.1005.17				

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.28 11.74 2.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

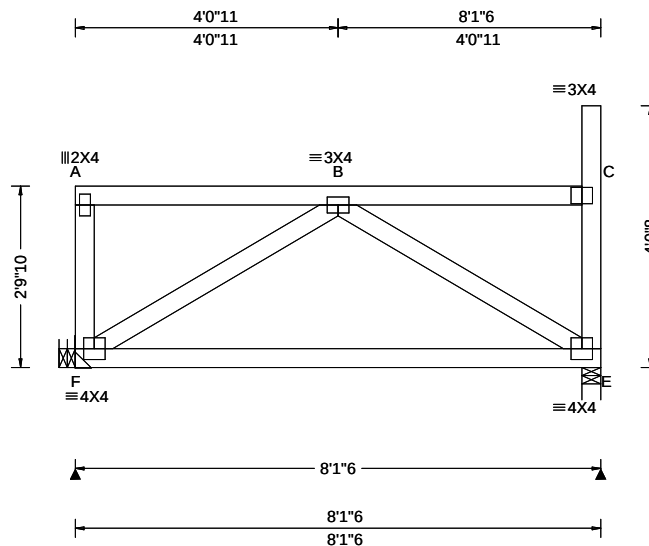
Truss must be installed as shown with top chord up.



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SEQN: 34616 / FROM:	FLAT	Ply: 1 Qty: 2	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T14	Cust: R 9316 JRef: 1Xf493160001 T130 DrwNo: 119.22.1045.18947 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.005 B 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	F 487 /- /- /229 /44 /91
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	E 467 /- /- /214 /45 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.004 E - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.80 ft	Building Code:	Creep Factor: 2.0	F Brg Wid = - Min Req = -
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.217	E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.815	Bearing E is a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.203	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



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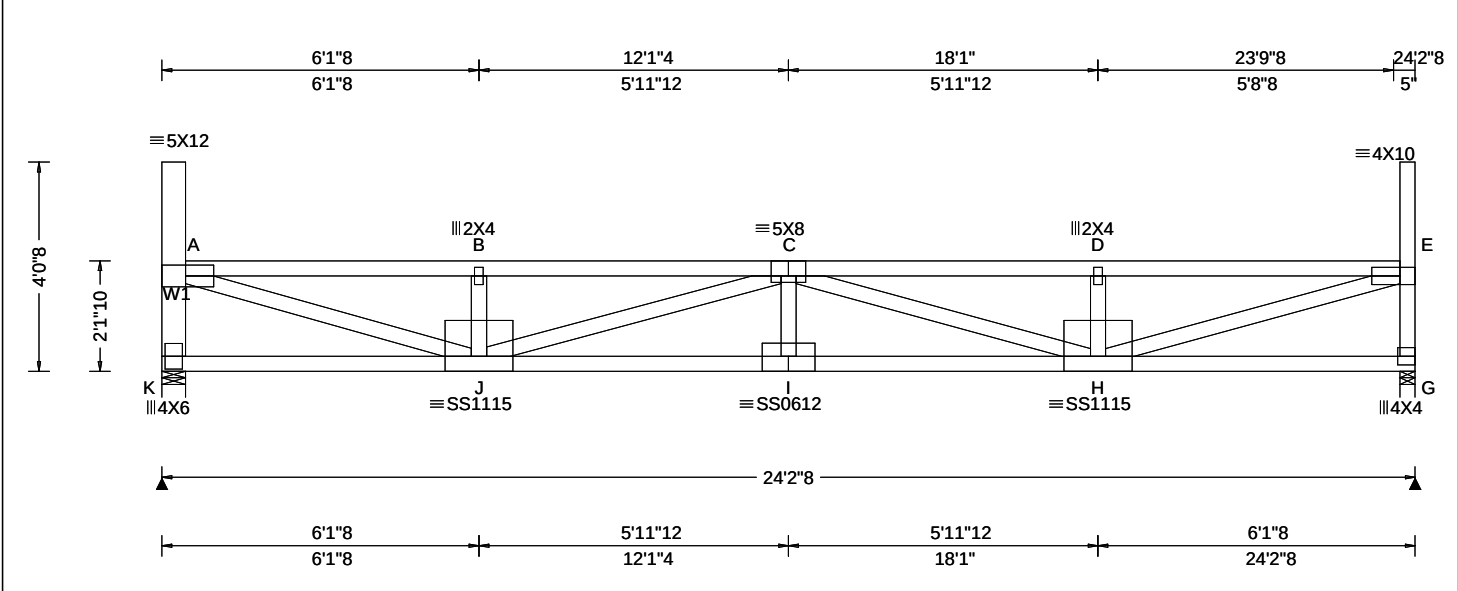
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34618 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T18	Cust: R 9316 JRef:1X1493160001 T125 DrwNo: 119.22.1045.12917 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.390 I 745 360 VERT(CL): 0.668 I 434 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.101 A - - Creep Factor: 2.0 Max TC CSI: 0.873 Max BC CSI: 0.653 Max Web CSI: 0.937 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1421 /- /- /610 /78 /127 G 1432 /- /- /616 /80 /- Non-Gravity Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 233 -3773 C - D 224 -3779 B - C 232 -3768 D - E 225 -3784

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.91 32.49 4.38
23.92 0.00 23.46 1.91 32.49 4.38
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.39" DL: 0.28". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

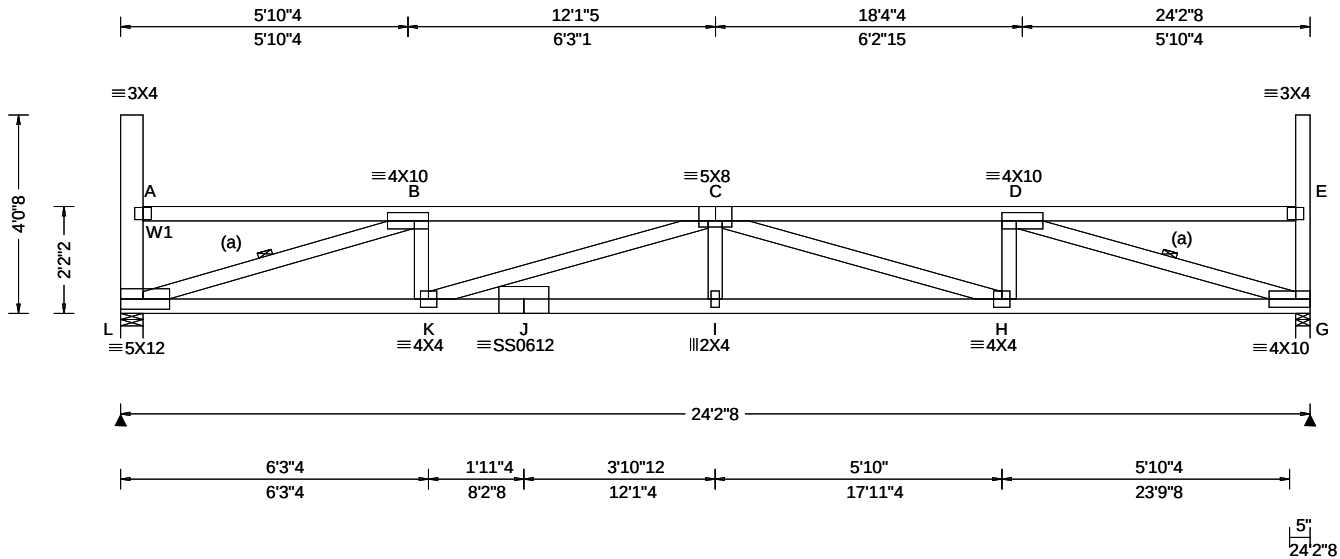
Truss must be installed as shown with top chord up.



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SEQN: 34619 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T19	Cust: R 9316 JRef:1X1493160001 T115 DrwNo: 119.22.1045.13493 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCCL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	GravityNon-Gravity LocR+ / R- / Rh / Rw / U / RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.356 I 815 360	L 1420 - / - /610 /78 /126
BCCL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.610 I 476 240	G 1432 - / - /616 /80 - / -
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.075 G - -	
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.129 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.18 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.629	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.622	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.787	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCp: 0.18			
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	B - C 225 - 3716 C - D 216 - 3726

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.25". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

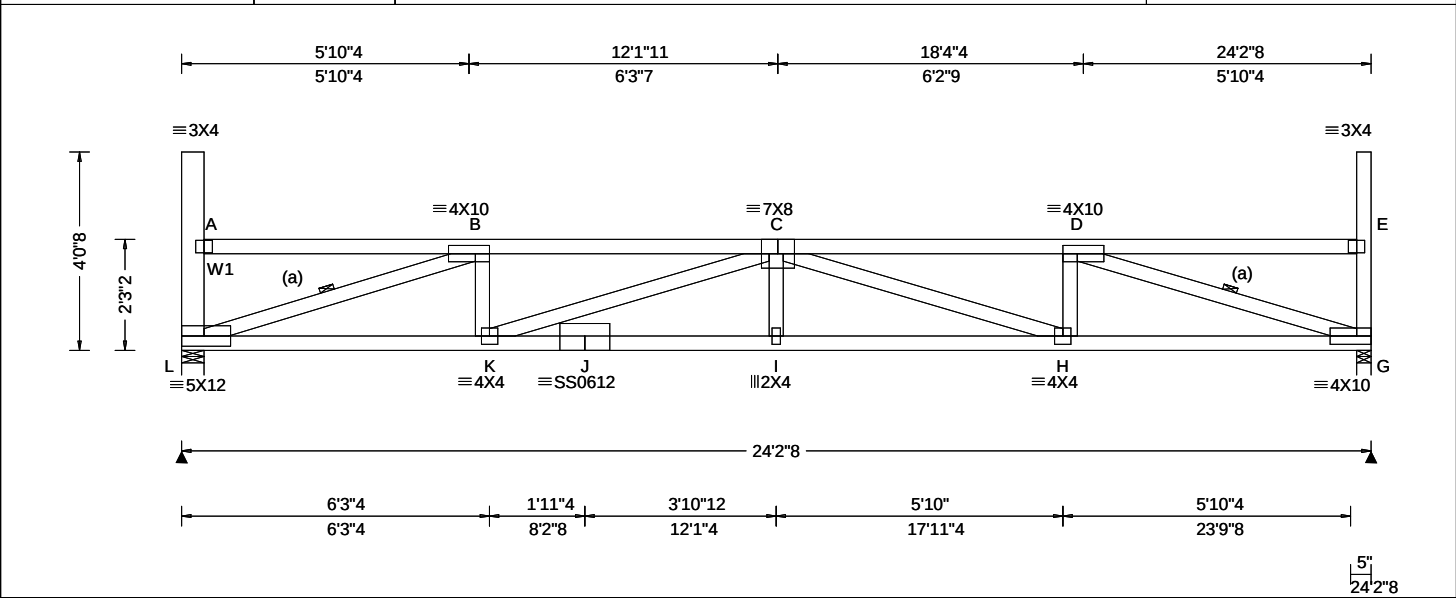


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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 34725 /	FLAT	Ply: 1	Job Number: JB-220680	Cust: R 9316 JRef:1X1493160001 T116
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1045.12661
			Truss Label: T20	/ NDW 04/29/2022

SEQN: 34621 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T21	Cust: R 9316 JRef:1X1493160001 T117 DrwNo: 119.22.1045.13870 / NDW 04/29/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
TCLL: 20.00		Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity		
TCDL: 15.00		Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.328 I 886 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
BCLL: 15.00		Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.562 I 517 240	L	1419	/-	/-	/609	/78 /123
BCDL: 10.00		Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.072 G - -	G	1431	/-	/-	/615	/80 /-
Des Ld: 60.00		EXP: B Kzt: NA		HORZ(TL): 0.123 G - -	Wind reactions based on MWFRS					
NCBCLL: 0.00		Mean Height: 21.26 ft	Building Code:	Creep Factor: 2.0	L	Brg Wid = 5.5 Min Req = 1.8 (Truss)				
Soffit: 2.00		TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.590	G	Brg Wid = 3.5 Min Req = 1.8 (Truss)				
Load Duration: 1.15		BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.600	Bearings L & G are a rigid surface.					
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.761	Members not listed have forces less than 375#					
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)					
		Loc. from endwall: Any	Plate Type(s):		Chords	Tens.Comp.		Chords	Tens. Comp.	
		GCpi: 0.18			B - C	199 - 3560		C - D	187 - 3569	
		Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17						

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; Bracing	Maximum Bot Chord Forces Per Ply (lbs)					
	<u>Chords</u>		<u>Tens.Comp.</u>		<u>Chords</u>	
					<u>Tens. Comp.</u>	
	L - K	3462	- 340	I - H	4581	- 286
	K - J	4581	- 286	H - G	3470	- 182
	J - I	4581	- 286			

(a) Continuous lateral restraint equally spaced on member.						Maximum Web Forces Per Ply (lbs)									
Loading						Webs		Tens.Comp.		Webs		Tens. Comp.			
Drifting snow load has been considered for only in plane loading as follows:						L - B		219 - 3559		C - H		128 - 1068			
Location						Lu1		Lu2		Height		Pd		W	
						22.4		5.02				666		-1	
												129		- 1078	
												D - G		217 - 3604	

0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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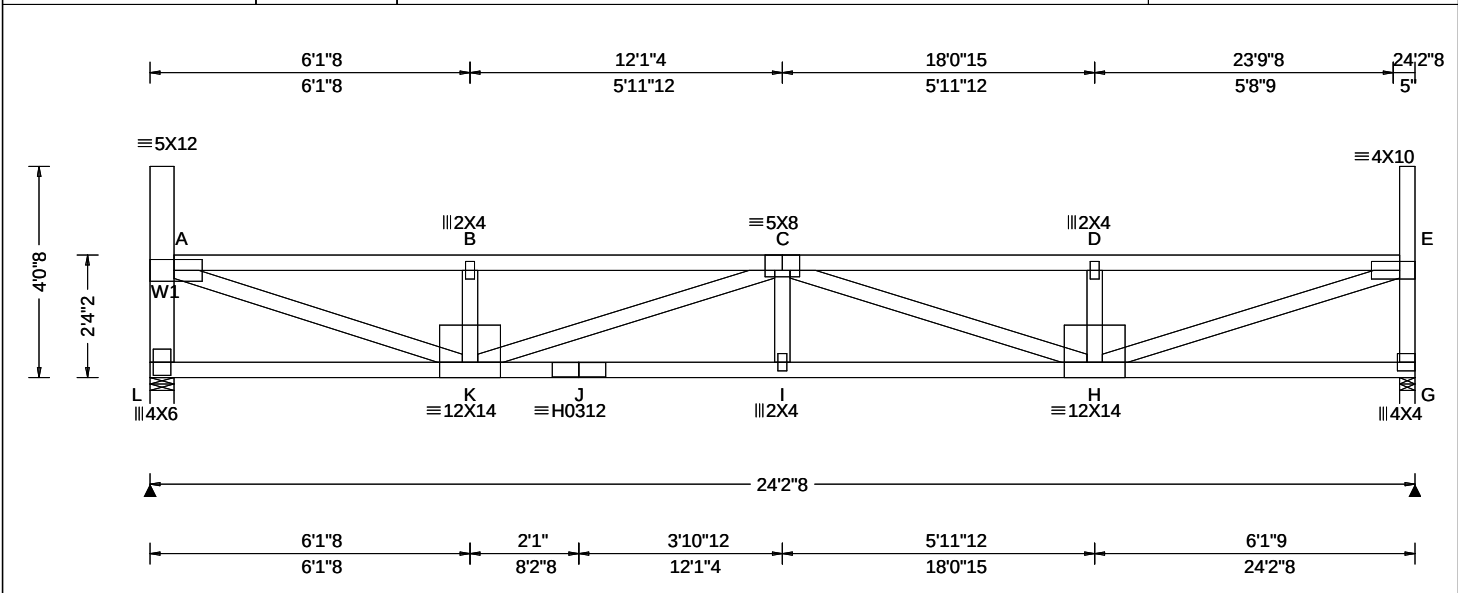
Deflection Max JT VERT DEFL: LL: 0.33" DL: 0.23". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.
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SEQN: 34623 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T23	Cust: R 9316 JRef:1X1493160001 T119 DrwNo: 119.22.1045.18996 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.318 I 912 360 VERT(CL): 0.545 I 532 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.092 A - - Creep Factor: 2.0 Max TC CSI: 0.807 Max BC CSI: 0.585 Max Web CSI: 0.853 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1421 /- /- /609 /78 /120 G 1432 /- /- /615 /80 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 198 - 3403 C - D 184 - 3407 B - C 198 - 3398 D - E 185 - 3412

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.70 25.57 5.57
23.92 0.00 23.46 1.70 25.57 5.57
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

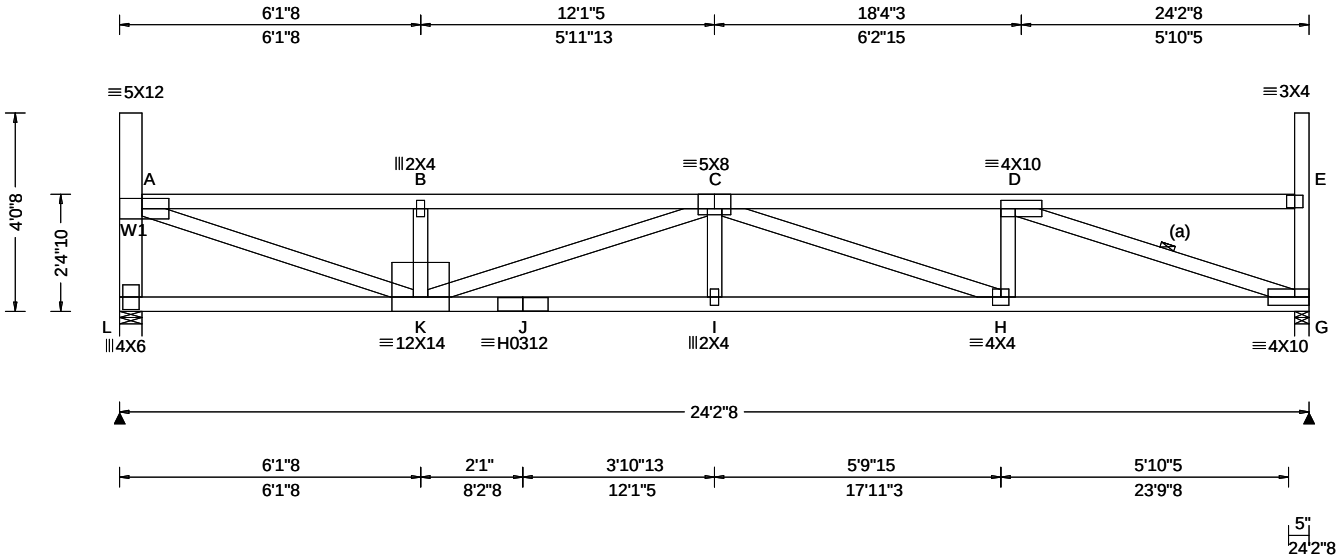


04/29/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34624 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T24	Cust: R 9316 JRef:1X1493160001 T120 DrwNo: 119.22.1045.17657 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.299 I 972 360 VERT(CL): 0.512 I 567 240 HORZ(LL): 0.054 G - - HORZ(TL): 0.092 G - - Creep Factor: 2.0 Max TC CSI: 0.764 Max BC CSI: 0.579 Max Web CSI: 0.822 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1421 /- /- /609 /78 /119 G 1432 /- /- /615 /81 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 195 - 3337 C - D 177 - 3365 B - C 194 - 3332

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

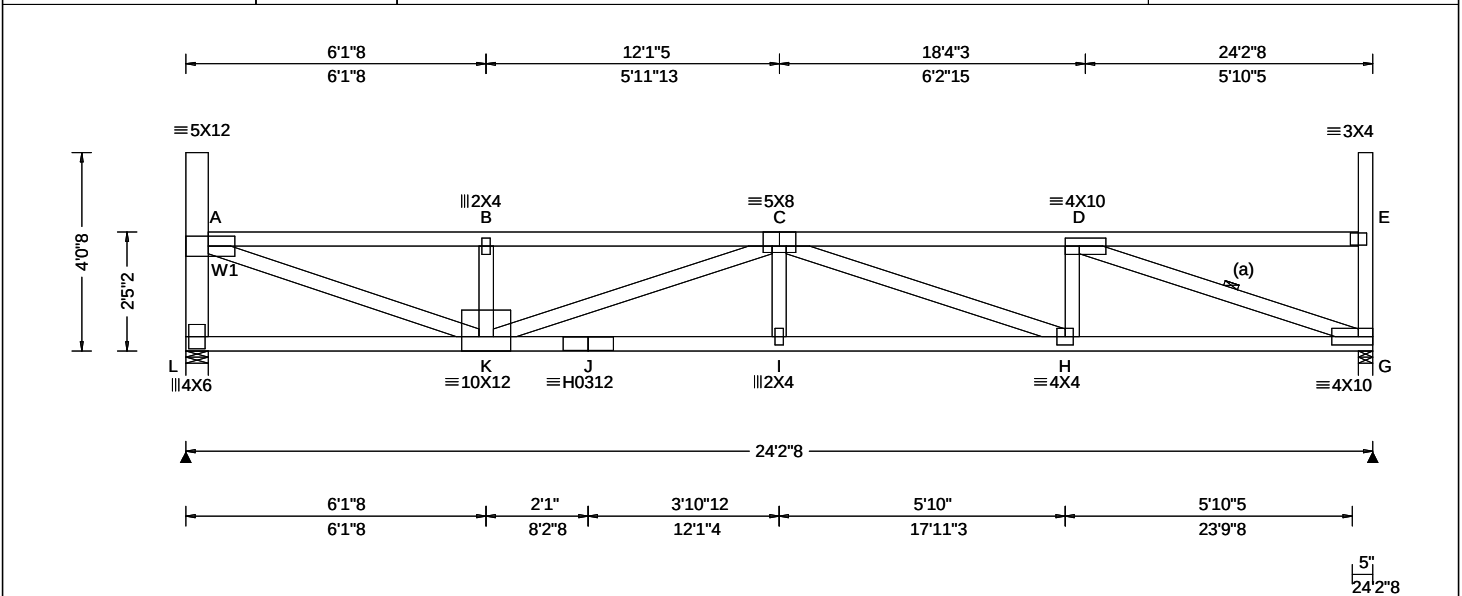


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Building 7

SEQN: 34625 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T25	Cust: R 9316 JRef: 1X1493160001 T121 DrwNo: 119.22.1045.11774 / NDW 04/29/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.288 I 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.493 I 589 240		L	1420	/-	/-	/609	/78	/118	
BCDL: 10.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.053 G - -		G	1432	/-	/-	/615	/81	/-	
Des Ld: 60.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS		HORZ(TL): 0.090 G - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height: 21.43 ft				Creep Factor: 2.0		L Brg Wid = 5.5 Min Req = 1.8 (Truss)							
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.729		G Brg Wid = 3.5 Min Req = 1.8 (Truss)							
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.570		Bearings L & G are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h				Max Web CSI: 0.807		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft						Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall: not in 14.50 ft						Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18						A - B		191 - 3273		C - D		174 - 3301	
		Wind Duration: 1.60						VIEW Ver: 21.02.00.1005.17							

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	B - C 191 - 3268												
Bracing (-) Continuous lateral restraint equally spaced on	Maximum Bot Chord Forces Per Ply (lbs) <table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>K - J</td><td>4234 - 262</td><td>I - H</td><td>4234 - 262</td></tr><tr><td>J - I</td><td>4234 - 262</td><td>H - G</td><td>3209 - 174</td></tr></table>	Chords	Tens.Comp.	Chords	Tens. Comp.	K - J	4234 - 262	I - H	4234 - 262	J - I	4234 - 262	H - G	3209 - 174
Chords	Tens.Comp.	Chords	Tens. Comp.										
K - J	4234 - 262	I - H	4234 - 262										
J - I	4234 - 262	H - G	3209 - 174										

(a) Continuous lateral restraint equally spaced on member.							Maximum Web Forces Per Ply (lbs)			
Loading							Webs	Tens.Comp.	Webs	Tens. Comp.
Drifting snow load has been considered for only in plane loading as follows:							L - A	93 - 1279	C - H	109 - 993
Location	Lu1	Lu2	Height	Pd	W	A - K	3290 - 205	H - D	676 0	
0.46	0.00	23.46	1.61	22.80	5.50	B - K	76 - 376	D - G	204 - 3363	
23.92	0.00	23.46	1.61	22.80	5.50	K - C	109 - 1025			

Loading
 Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.61	22.80 5.50
	23.92	0.00	23.46	1.61	22.80 5.50

 Where: Lu1 = leeward distance, Lu2 = windward distance
 Pd = max applied load, W = length of applied load.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 End verticals exposed to wind pressure. Deflection meets L/360.

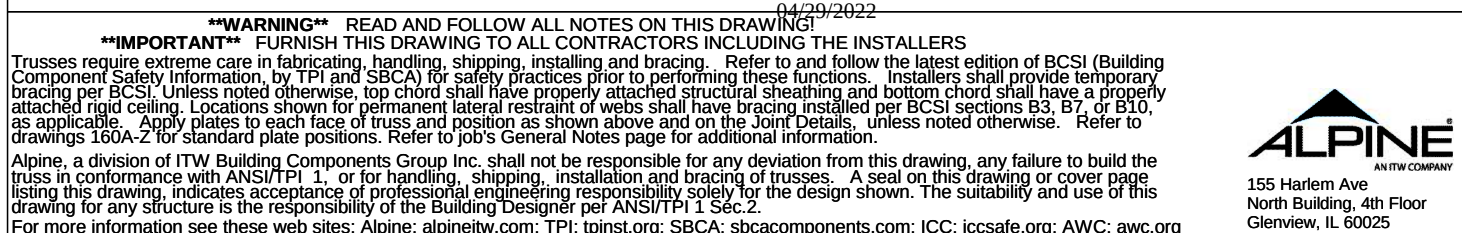
Deflection
 Max JT VERT DEFL: LL: 0.29" DL: 0.21". See detail DEFLCMB1014 for camber recommendations.
 Provide for adequate drainage of roof.

Additional Notes
 Truss must be installed as shown with top chord up.



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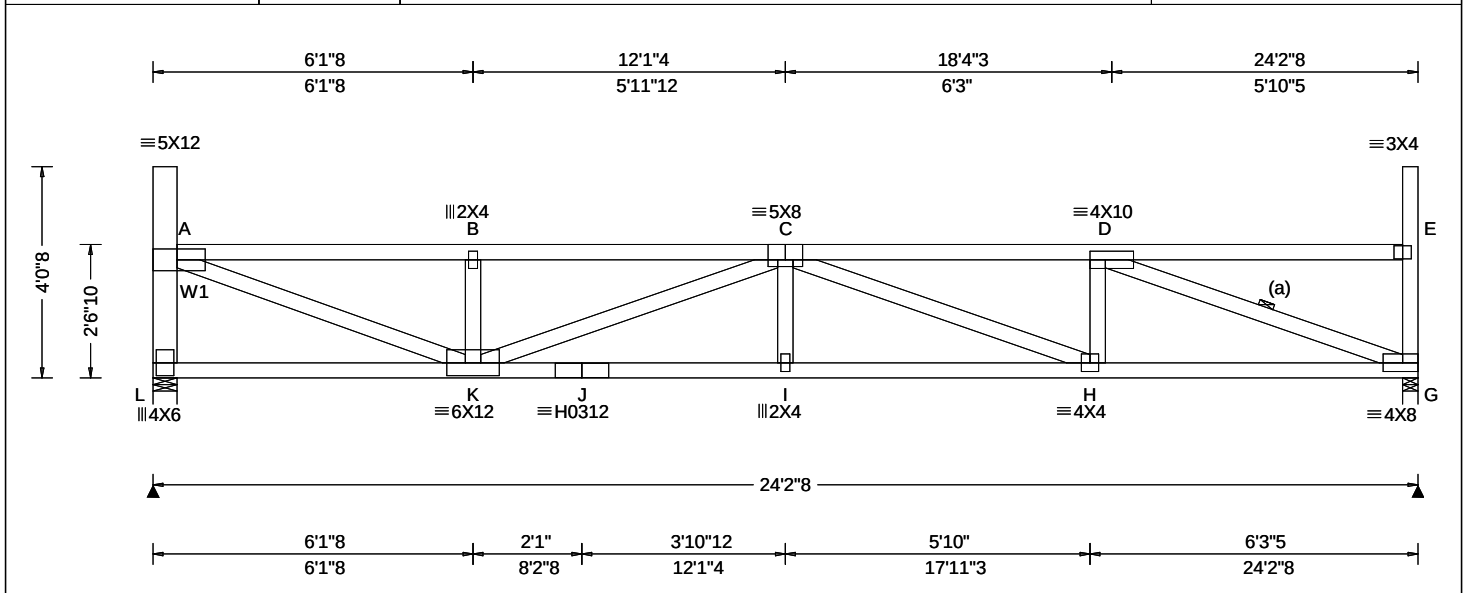






Building 7

SEQN: 34628 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T28	Cust: R 9316 JRef:1X1493160001 T107 DrwNo: 119.22.1045.11657 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 15.00 BCCL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.55 ft TCCL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.259 I 999 360 VERT(CL): 0.443 I 655 240 HORZ(LL): 0.050 G - - HORZ(TL): 0.086 G - - Creep Factor: 2.0 Max TC CSI: 0.637 Max BC CSI: 0.551 Max Web CSI: 0.768 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1421 /- /- /608 /79 /113 G 1432 /- /- /615 /81 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 183 -3097 C - D 165 -3123 B - C 182 -3092

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



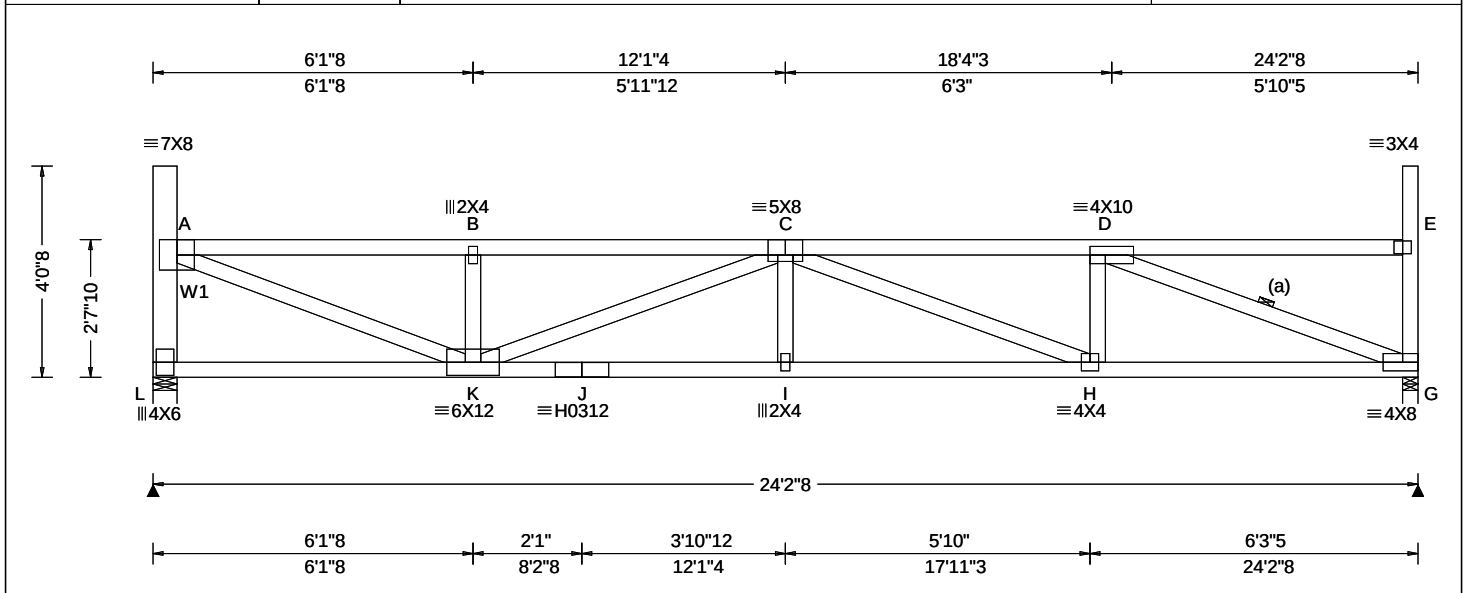
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Glenview, IL 60025



Building 7

SEQN: 34630 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T30	Cust: R 9316 JRef:1X1493160001 T122 DrwNo: 119.22.1045.11241 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.242 I 999 360 VERT(CL): 0.414 I 700 240 HORZ(LL): 0.048 G - - HORZ(TL): 0.083 G - - Creep Factor: 2.0 Max TC CSI: 0.605 Max BC CSI: 0.541 Max Web CSI: 0.745 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 /- /- /608 /79 /111 G 1432 /- /- /614 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 178 -2989 C - D 159 -3014 B - C 177 -2985

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

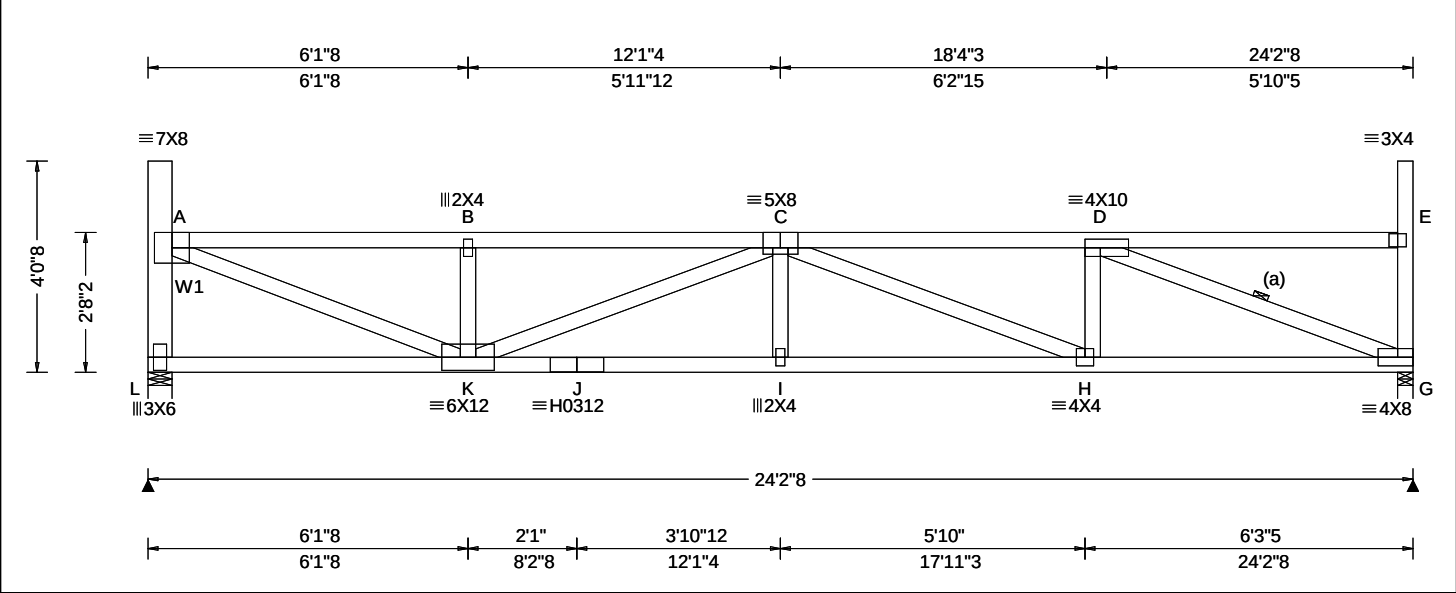
Truss must be installed as shown with top chord up.



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Glenview, IL 60025

SEQN: 34631 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T31	Cust: R 9316 JRef:1X1493160001 T129 DrwNo: 119.22.1045.18726 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity						
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	L	1421	/-	/-	/608	/79	/109
	BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	G	1432	/-	/-	/614	/81	/-
	Des Ld: 60.00	EXP: B Kzt: NA		Wind reactions based on MWFRS						
	NCBCLL: 0.00	Mean Height: 21.68 ft	Building Code:	L	Brg Wid = 5.5		Min Req = 1.8 (Truss)			
	Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	G	Brg Wid = 3.5		Min Req = 1.8 (Truss)			
	Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Bearings L & G are a rigid surface.						
	Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: not in 14.50 ft	Plate Type(s):	Chords	Tens.Comp.		Chords	Tens. Comp.			
	GCpi: 0.18		A - B	175 - 2938		C - D	156 - 2962			
	Wind Duration: 1.60	WAVE, HS	B - C	174 - 2933						
			VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.17". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

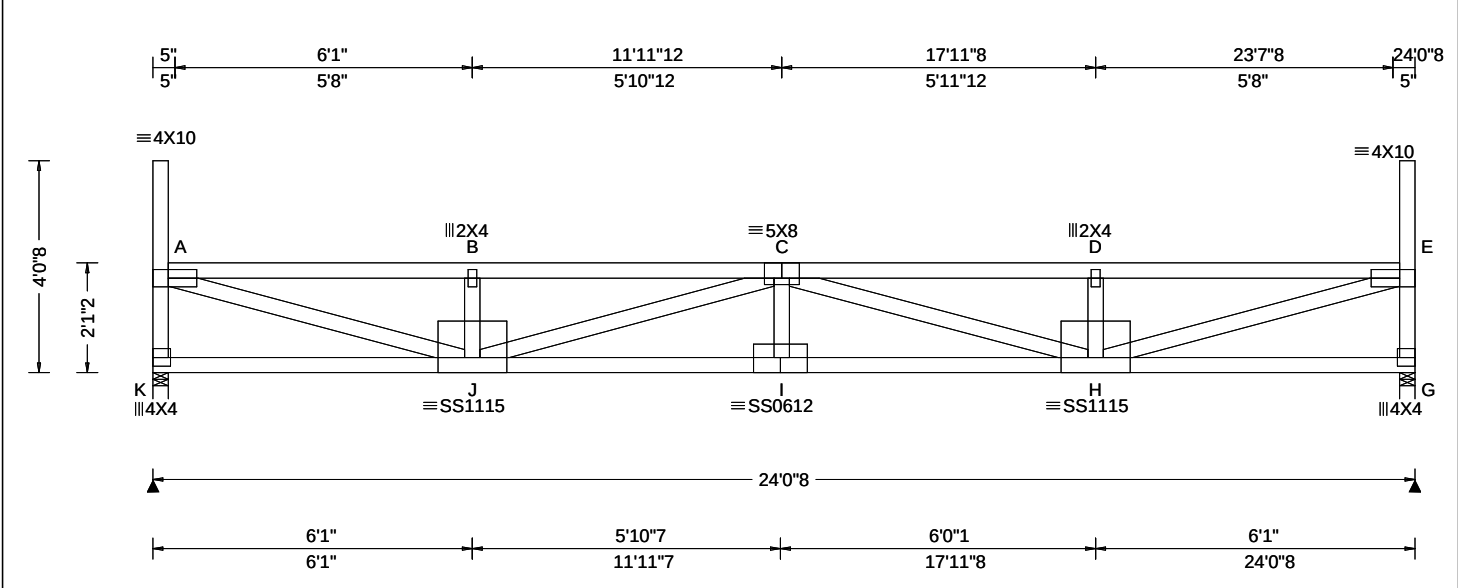


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Building 7

SEQN: 34632 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T33	Cust: R 9316 JRef:1X1493160001 T166 DrwNo: 119.22.1045.15318 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.398 I 725 360 VERT(CL): 0.682 I 423 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.100 A - - Creep Factor: 2.0 Max TC CSI: 0.868 Max BC CSI: 0.652 Max Web CSI: 0.944 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				K	1421	/-	/-	/612	/80	/138
				G	1421	/-	/-	/612	/80	/-
				Wind reactions based on MWFRS						
				K	Brg Wid = 3.5	Min Req = 1.8 (Truss)				
				G	Brg Wid = 3.5	Min Req = 1.8 (Truss)				
				Bearings K & G are a rigid surface.						
				Members not listed have forces less than 375#						
				Maximum Top Chord Forces Per Ply (lbs)						
				Chords	Tens.Comp.	Chords	Tens. Comp.			
				A - B	239 - 3812	C - D	238 - 3811			
				B - C	238 - 3807	D - E	239 - 3816			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.28". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

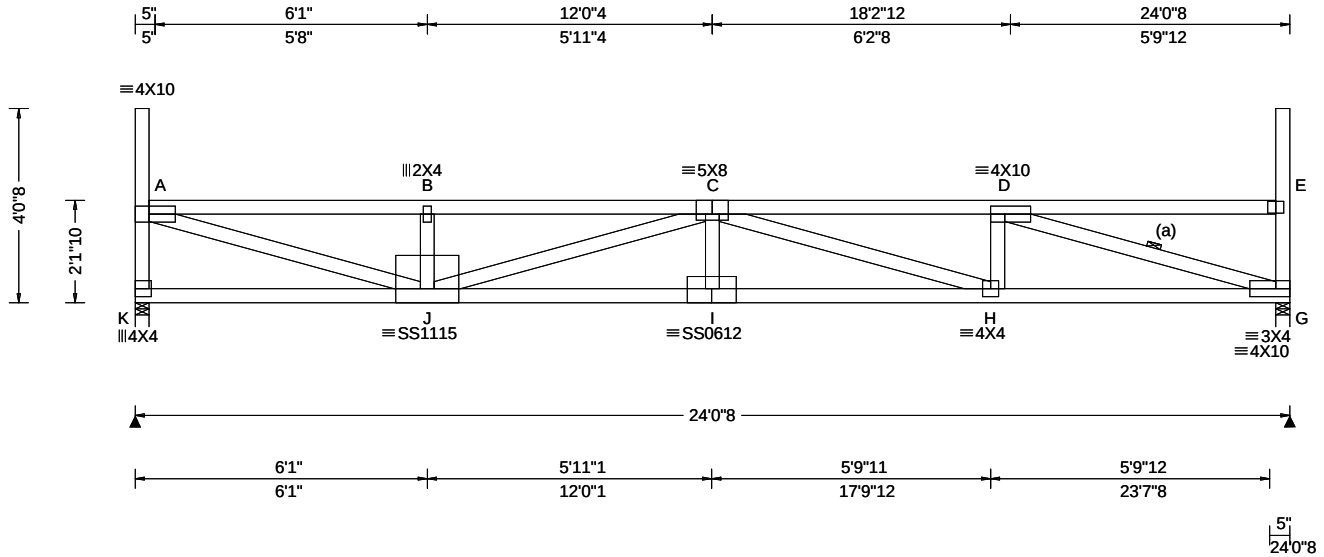


04/29/2022

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Glenview, IL 60025

SEQN: 34633 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T34	Cust: R 9316 JRef:1X1493160001 T154 DrwNo: 119.22.1045.13074 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.371 I 776 360 VERT(CL): 0.637 I 453 240 HORZ(LL): 0.059 G - - HORZ(TL): 0.102 G - - Creep Factor: 2.0 Max TC CSI: 0.854 Max BC CSI: 0.639 Max Web CSI: 0.925 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity K 1422 /- /- /612 /80 /137 G 1422 /- /- /612 /80 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 234 - 3732 C - D 231 - 3757 B - C 233 - 3727

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.27". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

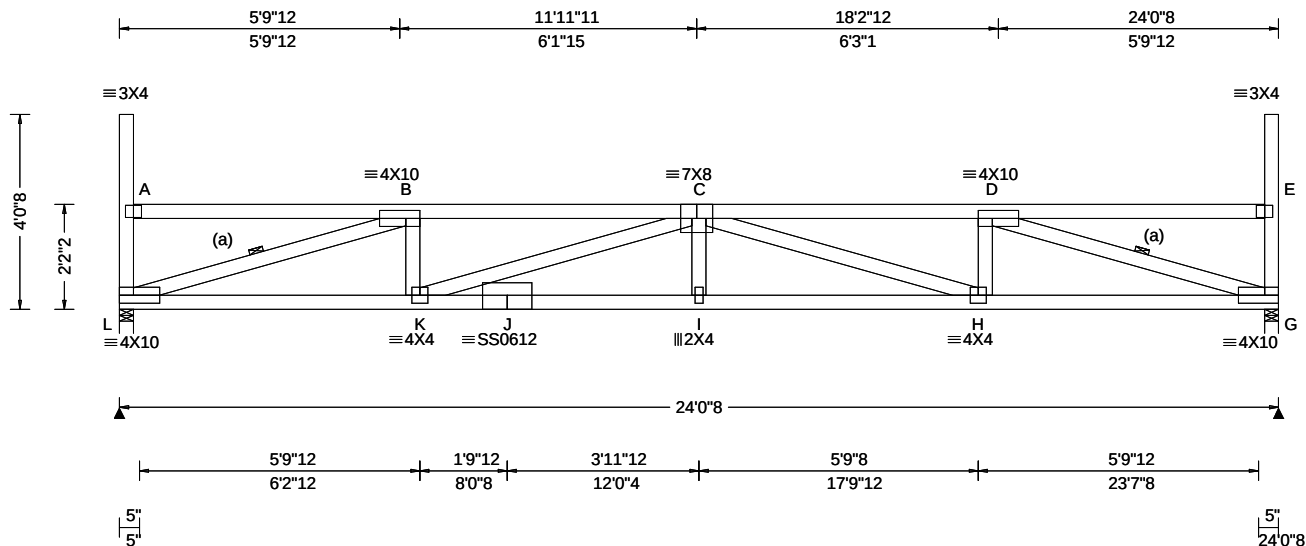


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Glenview, IL 60025

Building 7

SEQN: 34634 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T35	Cust: R 9316 JRef: 1X1493160001 T156 DrwNo: 119.22.1045.13333 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.18 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.346 I 832 360 VERT(CL): 0.594 I 486 240 HORZ(LL): 0.074 G - - HORZ(TL): 0.126 G - - Creep Factor: 2.0 Max TC CSI: 0.608 Max BC CSI: 0.612 Max Web CSI: 0.770 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1420 /- /- /612 /80 /135 G 1420 /- /- /612 /80 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 225 - 3672 C - D 225 - 3671

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.25". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

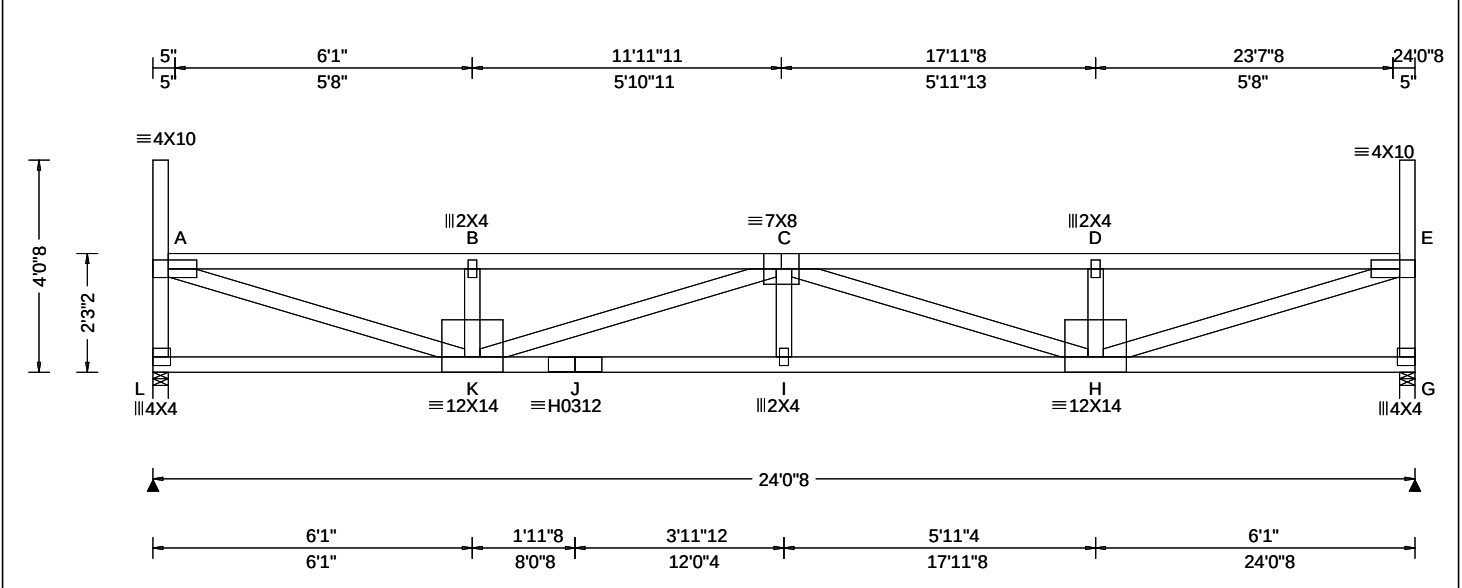
Truss must be installed as shown with top chord up.



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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34636 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T37	Cust: R 9316 JRef: 1X1493160001 T160 DrwNo: 119.22.1045.19152 / NDW 04/29/2022
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Loading Criteria (psf)
TCLL: 20.00
TCCL: 15.00
BCCL: 15.00
BCDL: 10.00
Des Ld: 60.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 109 mph
Enclosure: Closed
Risk Category: II
EXP: B Kzt: NA
Mean Height: 21.26 ft
TCCL: 5.0 psf
BCCL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCp: 0.18
Wind Duration: 1.60

Snow Criteria (Pg, Pf in PSF)
Pg: 20.0 Ct: 1.1 CAT: II
Pf: 15.4 Ce: 1.0
Lu: - Cs: 1.00
Snow Duration: 1.15

Building Code:
IBC 2018
TPI Std: 2014
Rep Fac: Yes
FT/RT: 20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): 0.336 I 858 360
VERT(CL): 0.576 I 500 240
HORZ(LL): 0.054 A - -
HORZ(TL): 0.093 A - -
Creep Factor: 2.0
Max TC CSI: 0.812
Max BC CSI: 0.594
Max Web CSI: 0.872

VIEW Ver: 21.02.00.1005.17

Maximum Reactions (lbs)						
Gravity			Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	-	-	/612	/80	/133
G	1420	-	-	/612	/80	-

Wind reactions based on MWFRS
L Brg Wid = 3.5 Min Req = 1.8 (Truss)
G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Bearings L & G are a rigid surface.
Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
A - B	199 - 3499	C - D	198 - 3493
B - C	198 - 3494	D - E	198 - 3498

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
K - J	4514 - 281	I - H	4514 - 281
J - I	4514 - 281		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
L - A	94 - 1286	C - H	123 - 1076
A - K	3554 - 220	H - E	3553 - 221
K - C	127 - 1075	E - G	94 - 1286

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.78	28.34	5.03
23.75	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

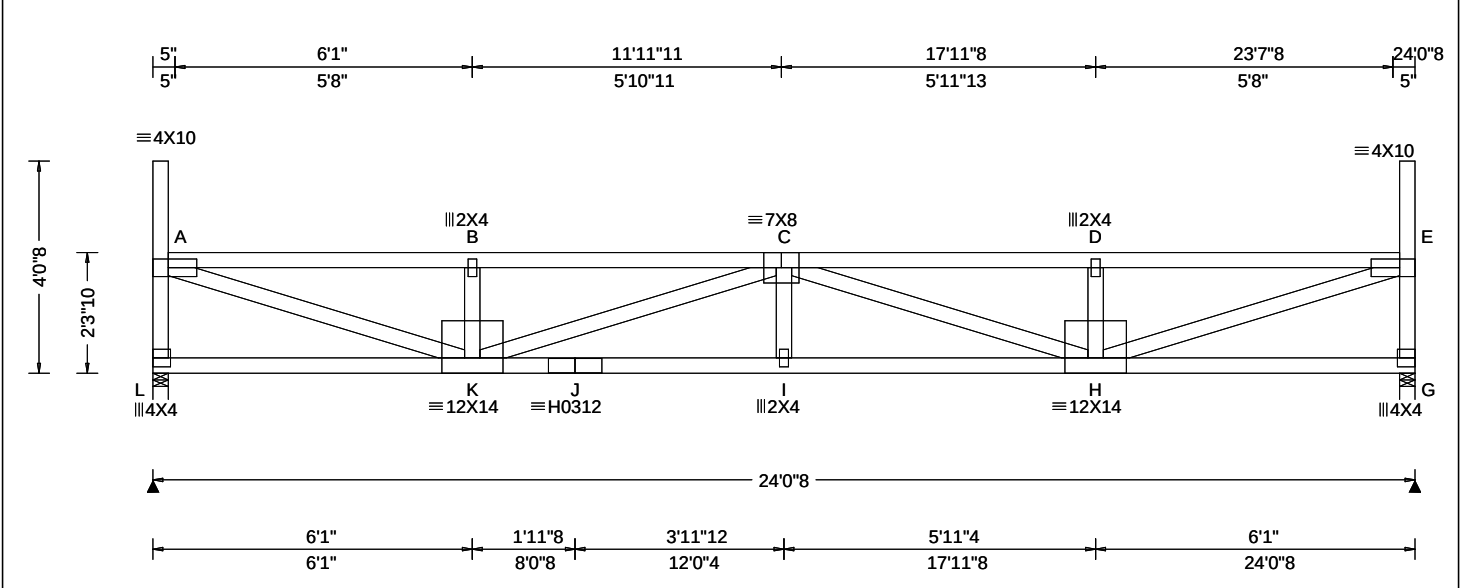
Truss must be installed as shown with top chord up.



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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34637 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T38	Cust: R 9316 JRef: 1X1493160001 T162 DrwNo: 119.22.1045.16605 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.323 I 893 360 VERT(CL): 0.554 I 521 240 HORZ(LL): 0.053 A - - HORZ(TL): 0.091 A - - Creep Factor: 2.0 Max TC CSI: 0.799 Max BC CSI: 0.585 Max Web CSI: 0.856 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1420 /- /- /612 /80 /132 G 1420 /- /- /612 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 195 - 3429 C - D 194 - 3423 B - C 194 - 3423 D - E 195 - 3428

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

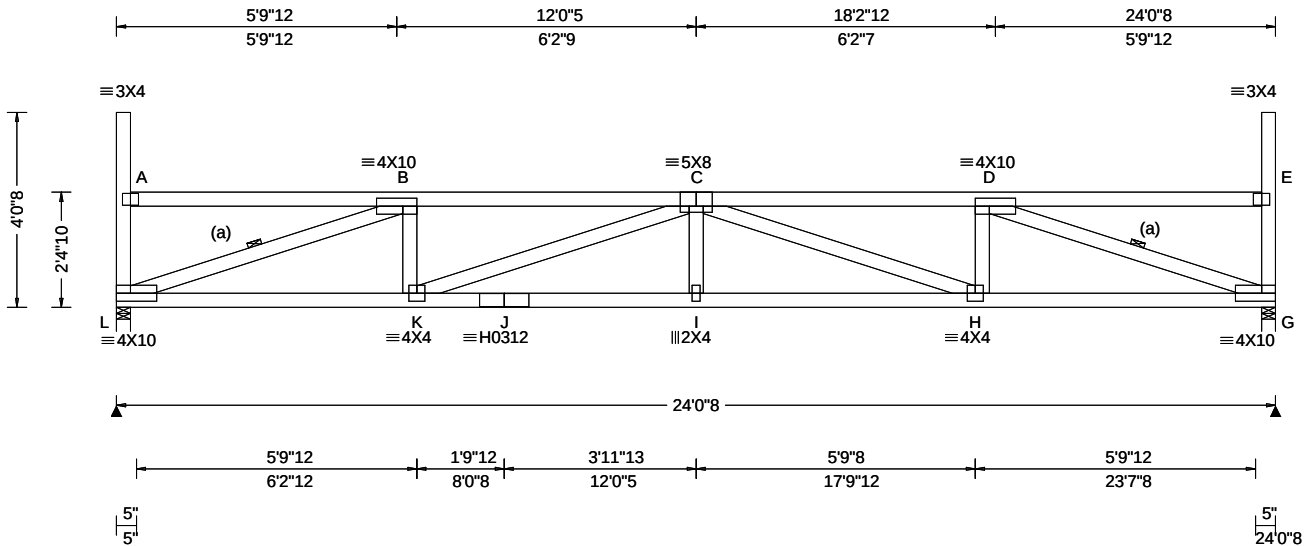
Truss must be installed as shown with top chord up.



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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34639 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T40	Cust: R 9316 JRef:1X1493160001 T155 DrwNo: 119.22.1045.12606 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.285 I 999 360 VERT(CL): 0.488 I 590 240 HORZ(LL): 0.066 G - - HORZ(TL): 0.114 G - - Creep Factor: 2.0 Max TC CSI: 0.529 Max BC CSI: 0.571 Max Web CSI: 0.713 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /612 /81 /129 G 1422 /- /- /612 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 185 - 3320 C - D 185 - 3319

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

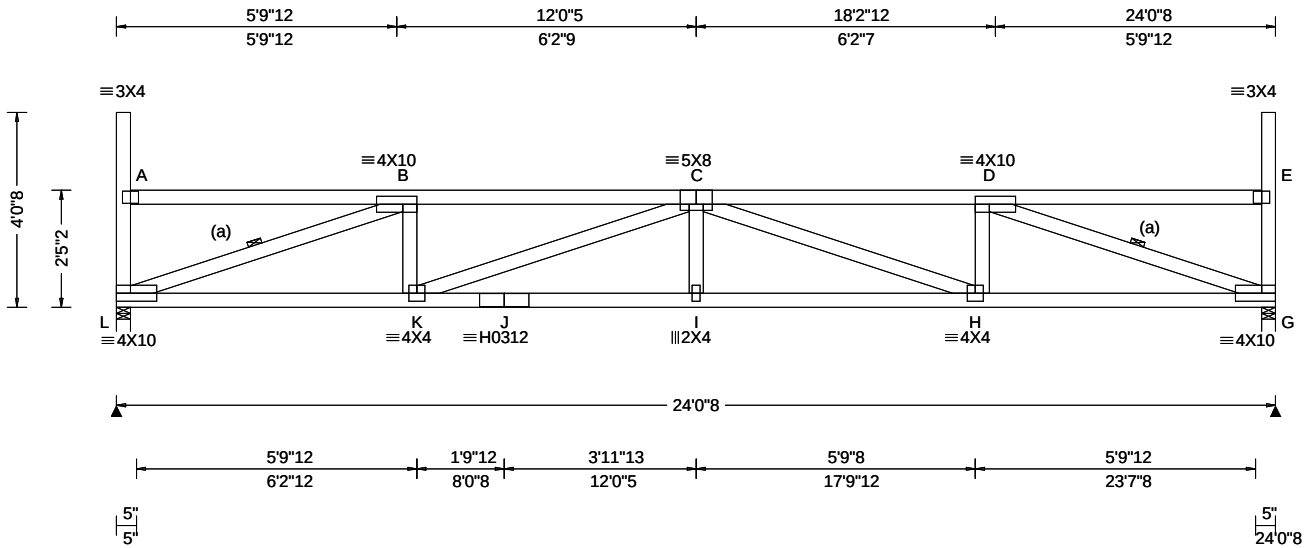
Truss must be installed as shown with top chord up.



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SEQN: 34640 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T41	Cust: R 9316 JRef: 1X1493160001 T151 DrwNo: 119.22.1045.14209 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.275 I 999 360 VERT(CL): 0.471 I 612 240 HORZ(LL): 0.065 G - - HORZ(TL): 0.112 G - - Creep Factor: 2.0 Max TC CSI: 0.516 Max BC CSI: 0.565 Max Web CSI: 0.703 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /81 /128 G 1422 /- /- /611 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 182 - 3257 C - D 182 - 3255

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

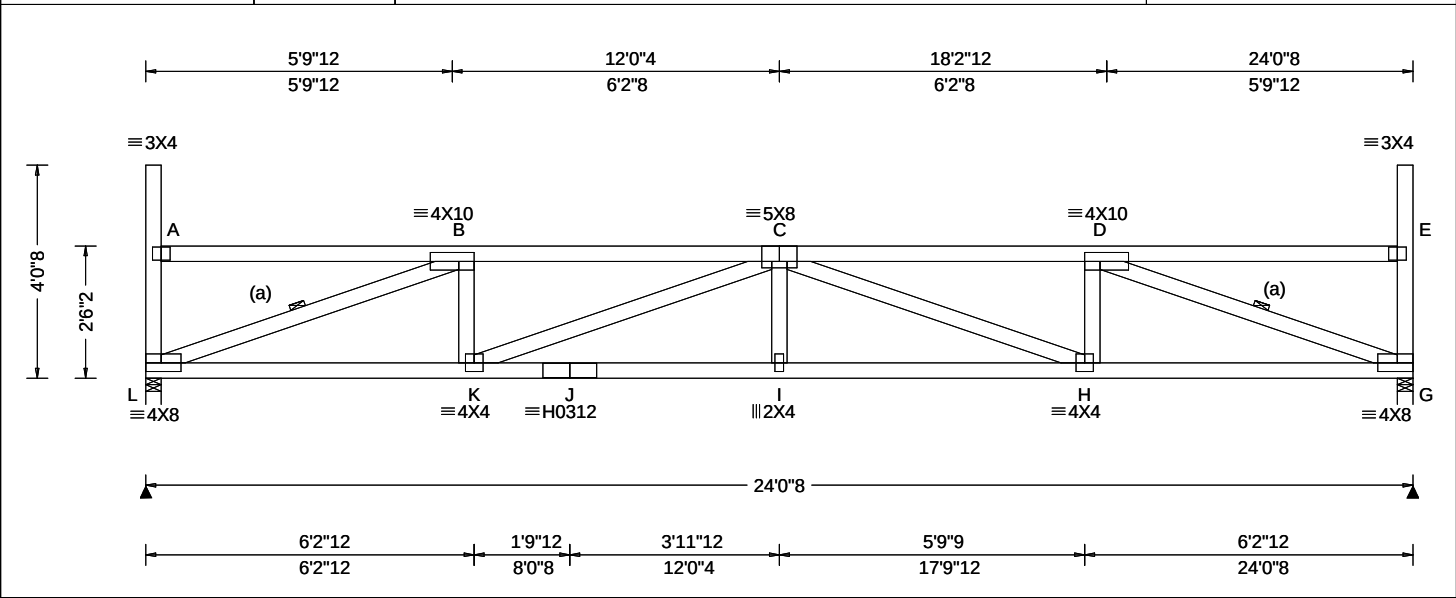
Truss must be installed as shown with top chord up.



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SEQN: 34642 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T43	Cust: R 9316 JRef:1X1493160001 T161 DrwNo: 119.22.1045.15203 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.438 I 658 240 HORZ(LL): 0.063 G - - HORZ(TL): 0.108 G - - Creep Factor: 2.0 Max TC CSI: 0.507 Max BC CSI: 0.553 Max Web CSI: 0.684 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /81 /126 G 1422 /- /- /611 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 176 - 3137 C - D 177 - 3136

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Chords Tens.Comp. Chords Tens. Comp. L - K 3049 - 289 I - H 4020 - 261 K - J 4020 - 261 H - G 3048 - 180 J - I 4020 - 261

Bracing	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Webs Tens.Comp. Webs Tens. Comp. L - B 199 - 3213 C - H 105 - 947 B - K 675 0 H - D 674 0 K - C 106 - 946 D - G 198 - 3212

Loading
Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.53 20.04 4.83 23.75 0.00 23.46 1.53 20.04 4.83 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

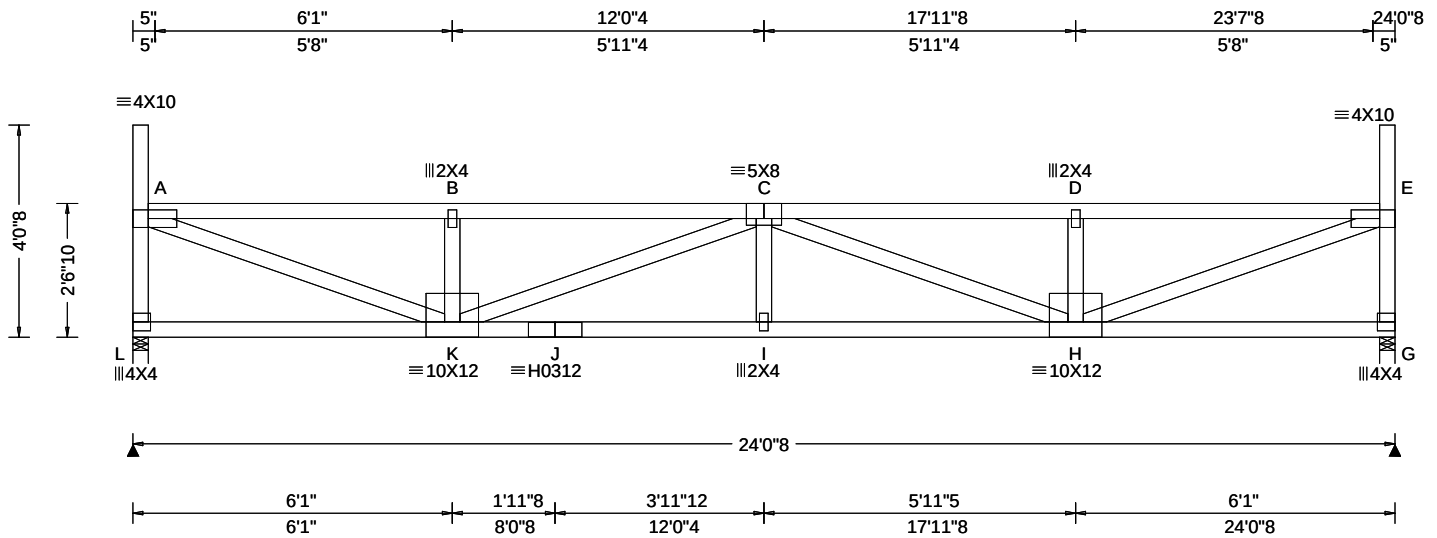
Additional Notes
Truss must be installed as shown with top chord up.



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Building 7

SEQN: 34643 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T44	Cust: R 9316 JRef:1X1493160001 T143 DrwNo: 119.22.1045.13791 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.55 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.260 I 999 360 VERT(CL): 0.445 I 647 240 HORZ(LL): 0.048 A - - HORZ(TL): 0.082 A - - Creep Factor: 2.0 Max TC CSI: 0.642 Max BC CSI: 0.540 Max Web CSI: 0.774 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /82 /125 G 1422 /- /- /611 /82 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 178 -3063 C - D 177 -3057 B - C 177 -3058 D - E 178 -3062

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

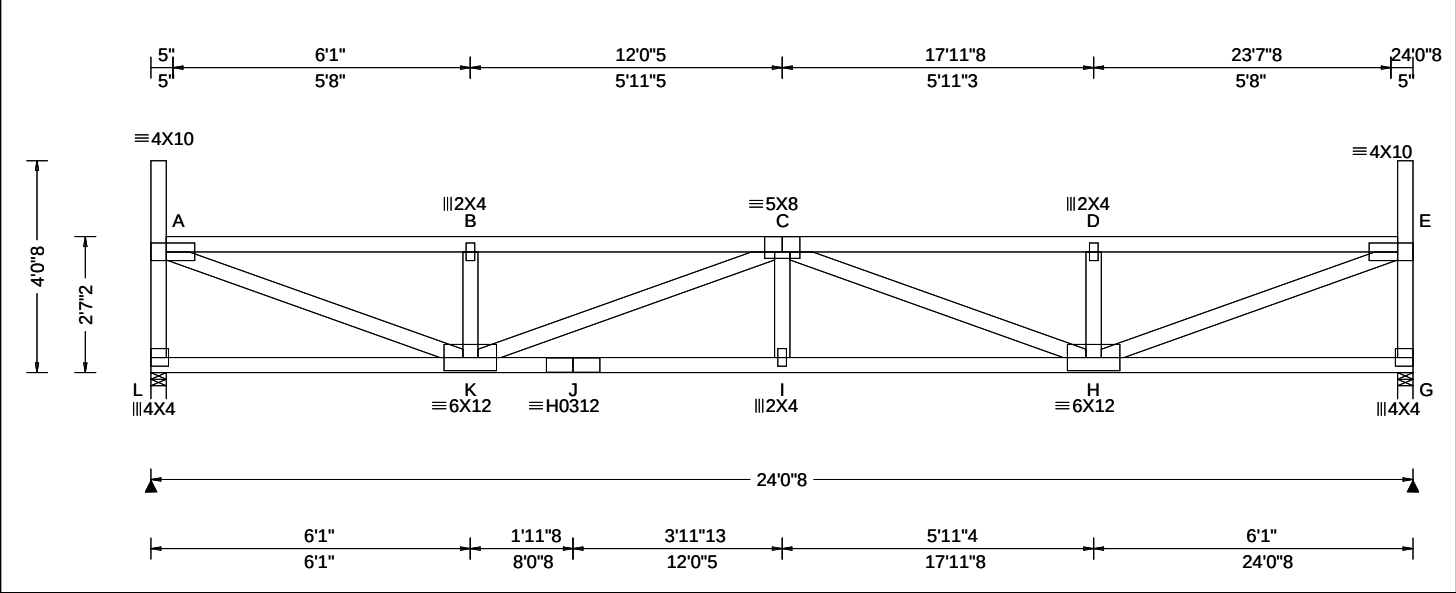
Truss must be installed as shown with top chord up.



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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34644 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T45	Cust: R 9316 JRef:1X1493160001 T153 DrwNo: 119.22.1045.15319 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.251 I 999 360 VERT(CL): 0.430 I 670 240 HORZ(LL): 0.047 A - - HORZ(TL): 0.081 A - - Creep Factor: 2.0 Max TC CSI: 0.628 Max BC CSI: 0.535 Max Web CSI: 0.762 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /82 /124 G 1422 /- /- /611 /82 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 175 -3009 C - D 174 -3003 B - C 175 -3004 D - E 175 -3008

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.18". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

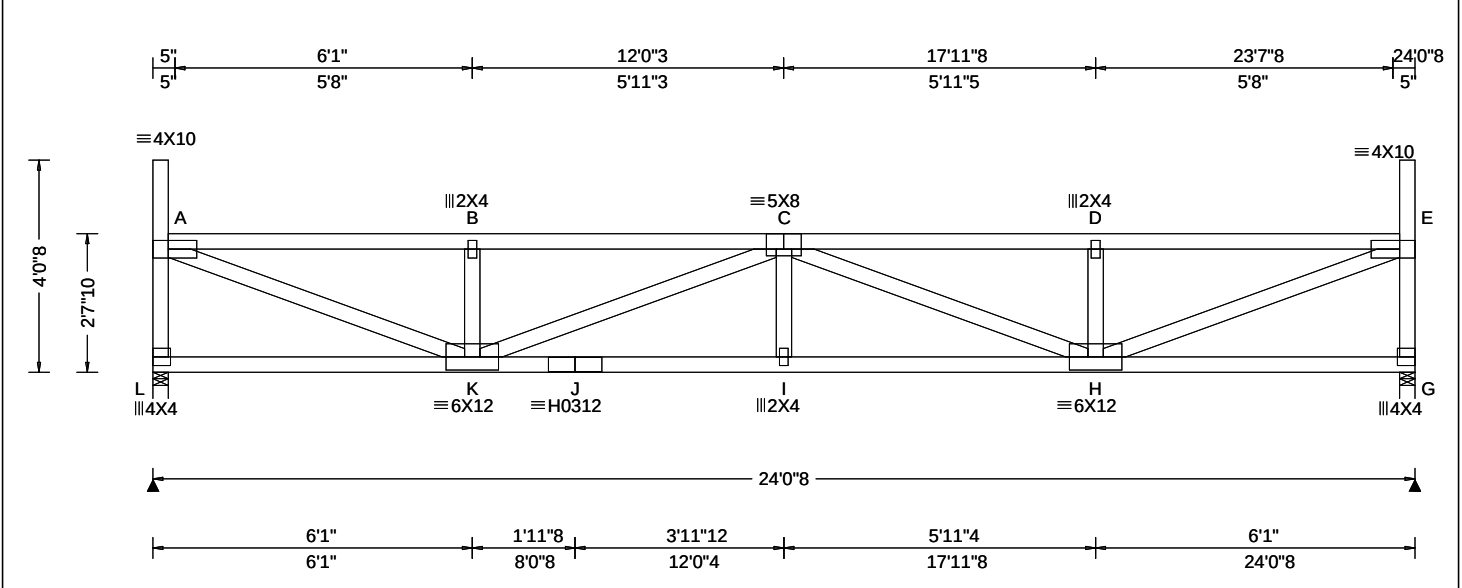


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Building 7

SEQN: 34645 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T46	Cust: R 9316 JRef: 1X1493160001 T148 DrwNo: 119.22.1045.12234 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.243 I 999 360 VERT(CL): 0.416 I 692 240 HORZ(LL): 0.046 A - - HORZ(TL): 0.080 A - - Creep Factor: 2.0 Max TC CSI: 0.618 Max BC CSI: 0.528 Max Web CSI: 0.750 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /82 /122 G 1422 /- /- /611 /82 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 173 -2956 C - D 172 -2951 B - C 172 -2951 D - E 172 -2956

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

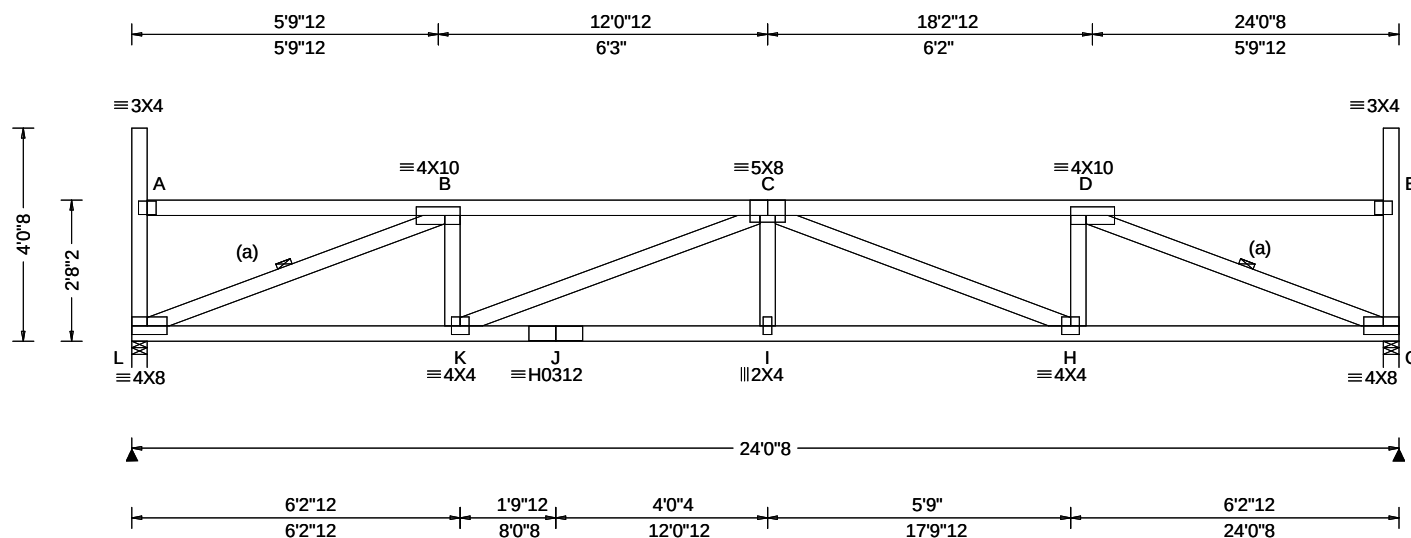


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Glenview, IL 60025

Building 7

SEQN: 34646 /	FLAT	Ply: 1	Job Number: JB-220680	Cust: R 9316 JRef:1Xf493160001 T163
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1045.13631
			Truss Label: T47	/ NDW 04/29/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL): 0.224 I 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL): 0.383 I 752 240		L	1422	/-	/-	/611	/82	/121	
BCDL:	10.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL): 0.058 G - -		G	1422	/-	/-	/611	/82	/-	
Des Ld: 60.00		EXP:	B Kzt: NA			HORZ(TL): 0.100 G - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height:	21.68 ft	Building Code:		Creep Factor: 2.0		L Brg Wid = 3.5 Min Req = 1.8 (Truss)							
Soffit: 2.00		TCDL:	5.0 psf	IBC 2018		Max TC CSI: 0.501		G Brg Wid = 3.5 Min Req = 1.8 (Truss)							
Load Duration: 1.15		BCDL:	3.0 psf	TPI Std: 2014		Max BC CSI: 0.534		Bearings L & G are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist:	h/2 to h	Rep Fac: Yes		Max Web CSI: 0.652		Members not listed have forces less than 375#							
		C&C Dist a:	3.00 ft	FT/RT:20(0)/10(0)		VIEW Ver: 21.02.00.1005.17		Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall:	not in 14.50 ft	Plate Type(s):				Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi:	0.18	WAVE HS				B - C	166	- 2923	C - D	166	- 2920		
		Wind Duration:	1.60												

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.16". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



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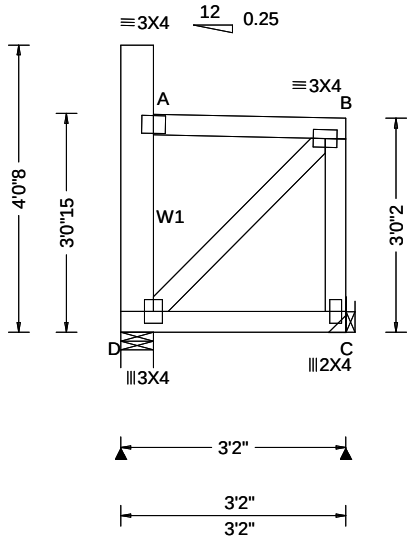
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34734 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48	Cust: R 9316 JRef:1X1493160001 T139 DrwNo: 119.22.1045.11448 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.04 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.001 B 999 240 HORZ(LL): 0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.139 Max BC CSI: 0.103 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 160 /- /- /95 /52 /78 C 188 /- /- /134 /46 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

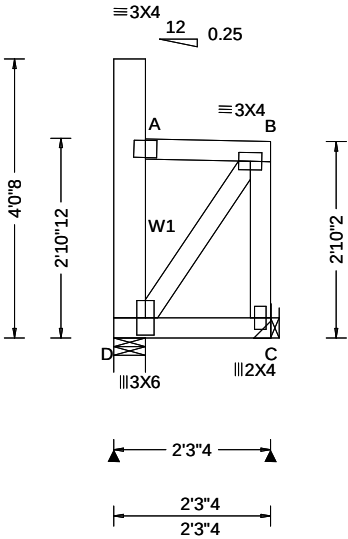
Truss must be installed as shown with top chord up.



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SEQN: 34648 / FROM:	MONO Ply: 1 Qty: 16	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T49	Cust: R 9316 JRef:1X1493160001 T230 DrwNo: 119.22.1045.17805 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	107	/-	/-	/87	/77	/80
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	133	/-	/-	/135	/60	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 21.87 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = - Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.065	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.052	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.042							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

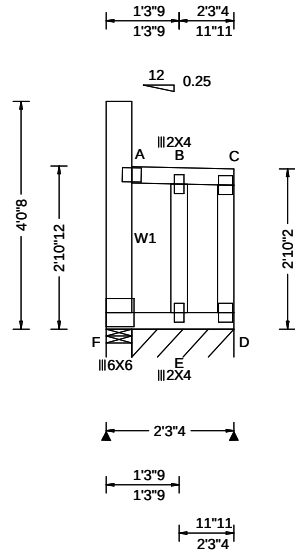


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Building 7

SEQN: 34649 / FROM:	MONO Qty: 4	Ply: 1 Qty: 4	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T50	Cust: R 9316 JRef: 1X1493160001 T128 DrwNo: 119.22.1045.16585 / NDW 04/29/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.006 A 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.008 A 999 240		F	33	/-11	/-	/96	/138	/80
BCDL: 10.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.111 B - -		D*	128	/-	/-	/130	/57	/-
Des Ld: 60.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE		HORZ(TL): 0.128 B - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 21.87 ft				Creep Factor: 2.0		F Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.110		D Brg Wid = 21.7 Min Req = -						
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.254		Bearings F & F are a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h				Max Web CSI: 0.115		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft				VIEW Ver: 21.02.00.1005.17								
		Loc. from endwall: not in 14.50 ft												
		GCp: 0.18												
		Wind Duration: 1.60												

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 3X4 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

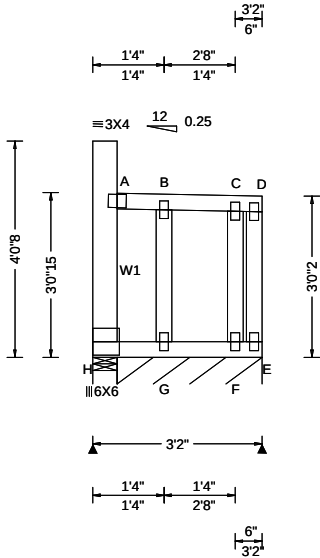


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34650 / FROM:	GABL Ply: 1 Qty: 4	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T51	Cust: R 9316 JRef:1X1493160001 T114 DrwNo: 119.22.1045.18104 / NDW 04/29/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity				Non-Gravity		
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.007 A 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.009 A 999 240		H	41	/-	/-	/117	/130	/90
BCDL: 10.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.121 C - -		E*	113	/-	/-	/96	/43	/-
Des Ld: 60.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE		HORZ(TL): 0.142 B - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 22.04 ft				Creep Factor: 2.0		H Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf		Wind Duration: 1.60		Max TC CSI: 0.087		E Brg Wid = 32.5 Min Req = -						
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.243		Bearings H & H are a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h				Max Web CSI: 0.109		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft												
		Loc. from endwall: not in 29.00 ft												
		GCp: 0.18												

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

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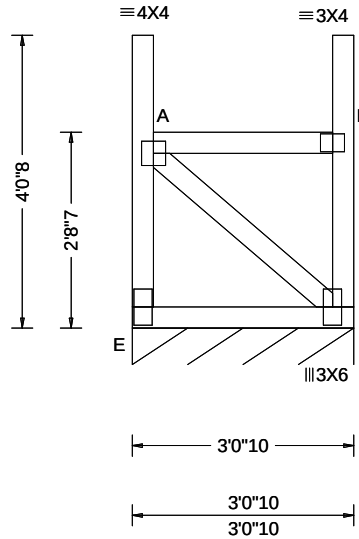
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34651 / FROM:	GABL Qty: 4	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T52	Cust: R 9316 JRef: 1Xf493160001 T216 DrwNo: 119.22.1045.17870 / NDW 04/29/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF							
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in	loc L/defl	L/#	Gravity			Non-Gravity				
TCDL: 15.00	Speed: 109 mph	Pf: 15.4		Ce: 1.0	VERT(LL): -0.000	A	999	360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00	Enclosure: Closed	Lu: -	Cs: 1.00		VERT(CL): 0.000	B	999	240	D*	113	/-	/-	/45	/4	/39
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15			HORZ(LL): -0.001	B	-	-	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA				HORZ(TL): 0.002	B	-	-	D Brg Wid = 36.6 Min Req = -						
NCBCLL: 0.00	Mean Height: 21.70 ft	Building Code:			Creep Factor: 2.0		Bearing E is a rigid surface.								
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018			Max TC CSI: 0.142		Members not listed have forces less than 375#								
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014			Max BC CSI: 0.107		Maximum Web Forces Per Ply (lbs)								
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes			Max Web CSI: 0.221		Webs Tens.Comp.								
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)					A - D 382 -387								
	Loc. from endwall: Any	Plate Type(s):													
	GCp: 0.18	WAVE													
	Wind Duration: 1.60				VIEW Ver: 21.02.00.1005.17										

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

All plates are 3X6 except as noted.

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.00	1.34	13.63	2.47
2.76	0.00	20.00	1.34	13.63	2.47

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



04/29/2022

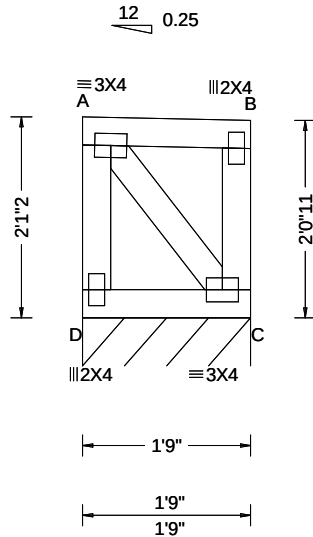
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34652 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE01	Cust: R 9316 JRef:1X1493160001 T188 DrwNo: 119.22.1045.19374 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.032 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 21.0 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



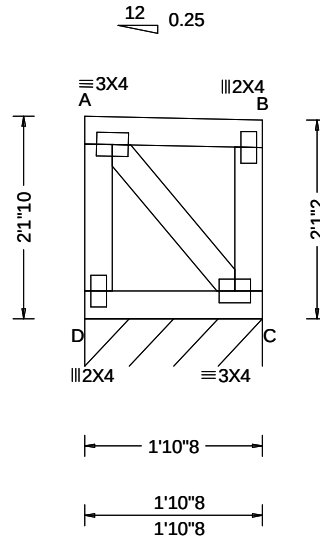
04/29/2022

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Building 7

SEQN: 34653 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE02	Cust: R 9316 JRef:1X1493160001 T189 DrwNo: 119.22.1045.16463 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.12 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.022 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /5 /18 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

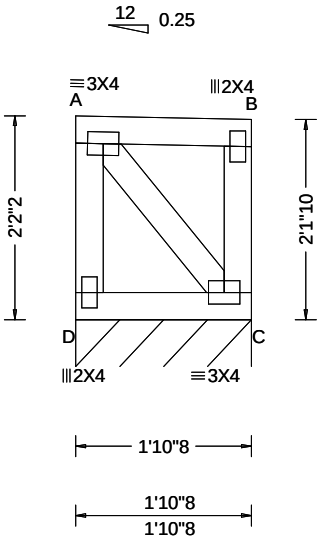


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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34654 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE03	Cust: R 9316 JRef:1X1493160001 T190 DrwNo: 119.22.1045.18714 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.16 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.023 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

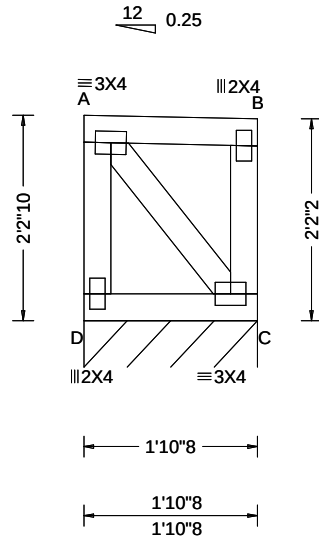


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Building 7

SEQN: 34655 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE04	Cust: R 9316 JRef:1X1493160001 T192 DrwNo: 119.22.1045.18627 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /5 /19 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

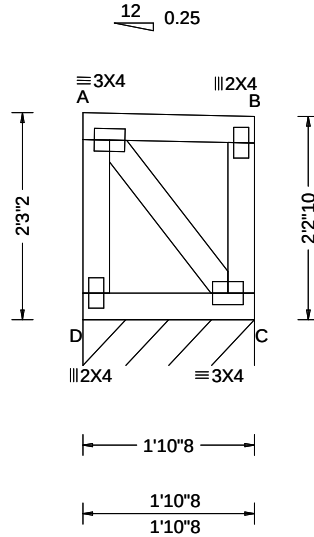


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Building 7

SEQN: 34656 / FROM:	MONO Qty: 8	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE05	Cust: R 9316 JRef: 1X1493160001 T215 DrwNo: 119.22.1045.11614 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /5 /20 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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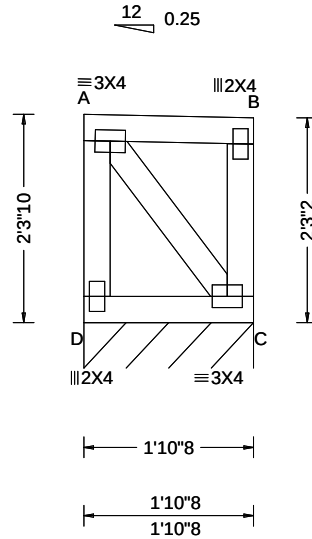
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34657 / FROM:	MONO Qty: 8	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE06	Cust: R 9316 JRef:1X1493160001 T219 DrwNo: 119.22.1045.11275 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.28 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.026 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /5 /20 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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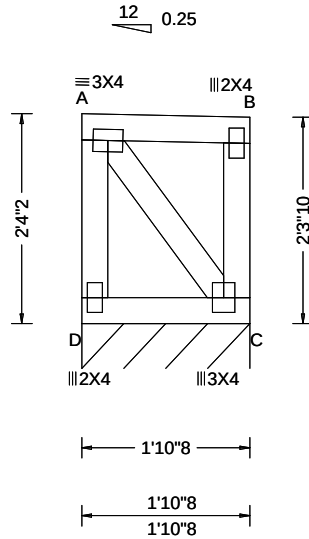
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Glenview, IL 60025

Building 7

SEQN: 34658 / FROM:	MONO Qty: 8	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE07	Cust: R 9316 JRef:1X1493160001 T220 DrwNo: 119.22.1045.12364 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.32 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.027 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /5 /21 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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04/29/2022

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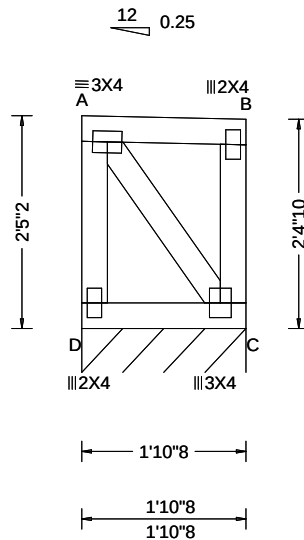
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Glenview, IL 60025

SEQN: 34660 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE09	Cust: R 9316 JRef: 1Xf493160001 T222 DrwNo: 119.22.1045.15525 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=-PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240	C* 120 /- /- /51 /5 /22
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -	Wind reactions based on MWFRS
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -	C Brg Wid = 22.5 Min Req = -
NCBCLL: 0.00	Mean Height: 21.41 ft	Building Code:	Creep Factor: 2.0	Bearing D is a rigid surface.
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Members not listed have forces less than 375#
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.038	
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.029	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Truss must be installed as shown with top chord up.



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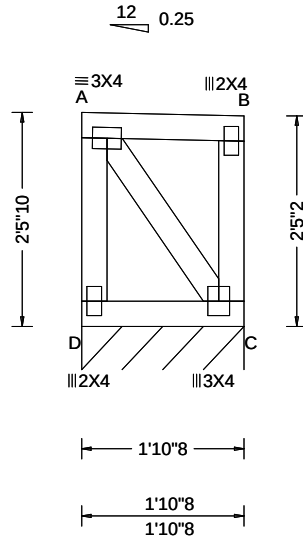
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Building 7

SEQN: 34661 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE10	Cust: R 9316 JRef:1X1493160001 T223 DrwNo: 119.22.1045.15991 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.45 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.031 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /22 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

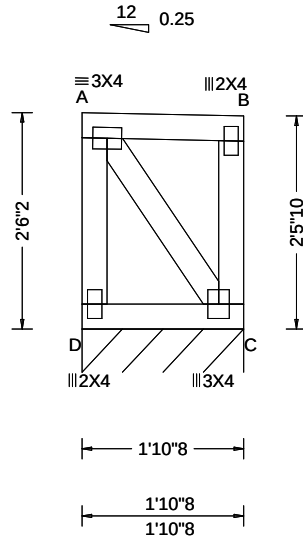


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Building 7

SEQN: 34662 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE11	Cust: R 9316 JRef:1X1493160001 T224 DrwNo: 119.22.1045.18447 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.49 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.032 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /22 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



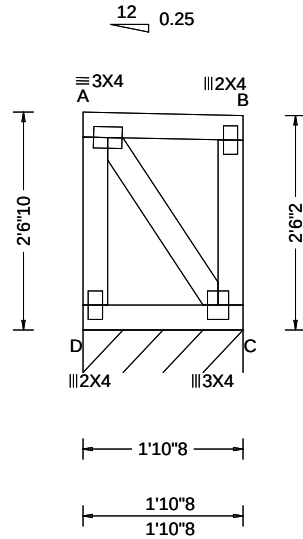
04/29/2022

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Building 7

SEQN: 34663 / FROM:	MONO Qty: 8	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE12	Cust: R 9316 JRef:1X1493160001 T225 DrwNo: 119.22.1045.11676 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /23 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



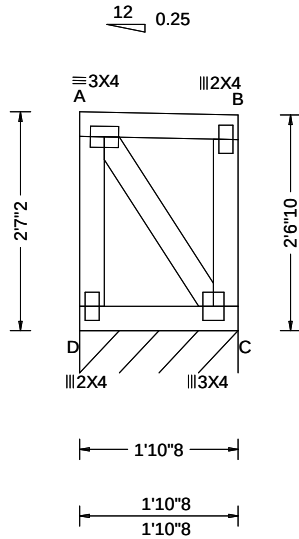
04/29/2022

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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34664 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE13	Cust: R 9316 JRef:1X1493160001 T226 DrwNo: 119.22.1045.11869 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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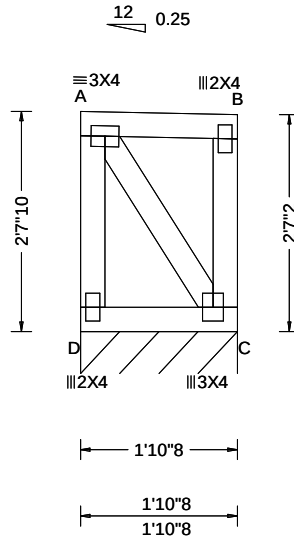
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34665 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE14	Cust: R 9316 JRef:1X1493160001 T227 DrwNo: 119.22.1045.11274 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.036 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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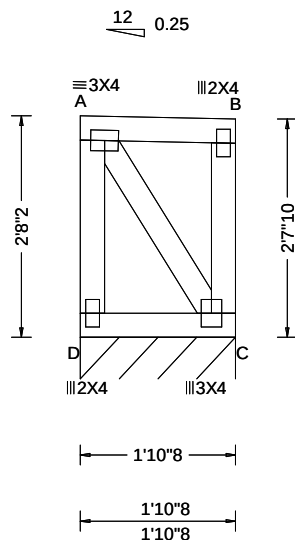
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155 Harlem Ave
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Glenview, IL 60025

SEQN: 34666 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE15	Cust: R 9316 JRef: 1Xf493160001 T228 DrwNo: 119.22.1045.17989 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=-PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240	C* 120 /- /- /51 /6 /24
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -	Wind reactions based on MWFRS
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -	C Brg Wid = 22.5 Min Req = -
NCBCLL: 0.00	Mean Height: 21.66 ft	Building Code:	Creep Factor: 2.0	Bearing D is a rigid surface.
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Members not listed have forces less than 375#
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.038	
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.037	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

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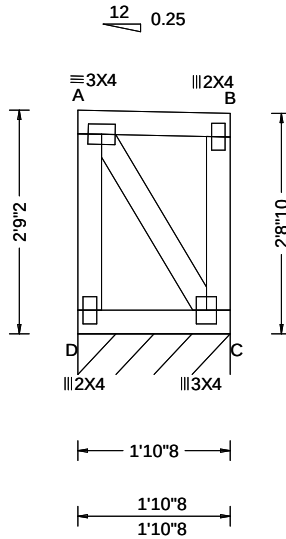
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155 Harlem Ave
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Glenview, IL 60025

Building 7

SEQN: 34667 / FROM:	MONO Ply: 1 Qty: 6	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE16	Cust: R 9316 JRef: 1X1493160001 T251 DrwNo: 119.22.1045.11165 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /25 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



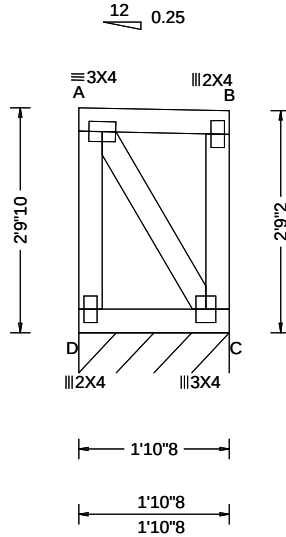
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Building 7

SEQN: 34668 / FROM:	MONO Ply: 1 Qty: 6	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE17	Cust: R 9316 JRef:1X1493160001 T252 DrwNo: 119.22.1045.11239 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /26 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



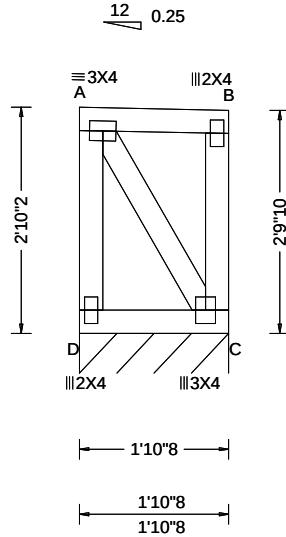
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Building 7

SEQN: 34669 / FROM:	MONO Ply: 1 Qty: 6	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE18	Cust: R 9316 JRef:1X1493160001 T253 DrwNo: 119.22.1045.11436 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.82 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /26 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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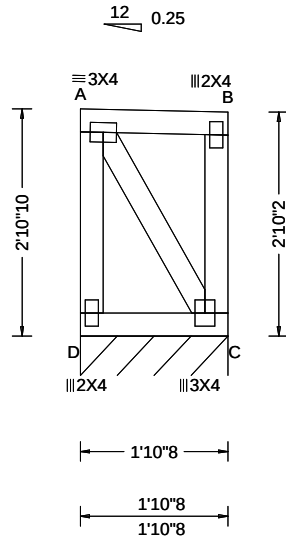
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34670 / FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE19	Cust: R 9316 JRef:1X1493160001 T254 DrwNo: 119.22.1045.12471 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.044 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /27 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

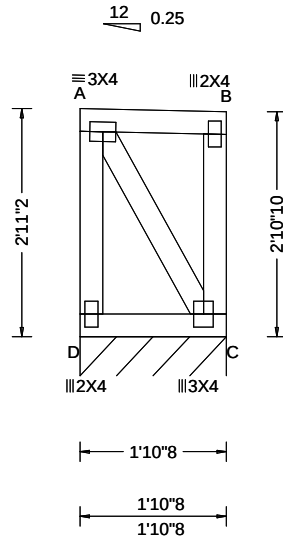


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Glenview, IL 60025

Building 7

SEQN: 34671 / FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE20	Cust: R 9316 JRef:1X1493160001 T255 DrwNo: 119.22.1045.11240 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.046 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /28 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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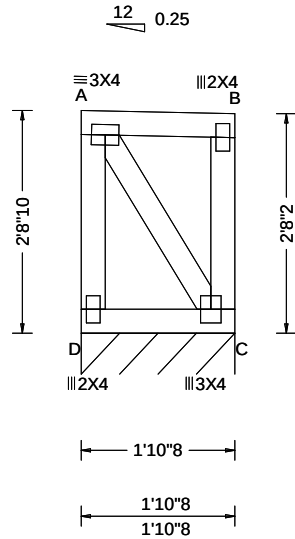
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34674 / FROM:	MONO Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE23	Cust: R 9316 JRef:1X1493160001 T231 DrwNo: 119.22.1045.15712 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.038 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /25 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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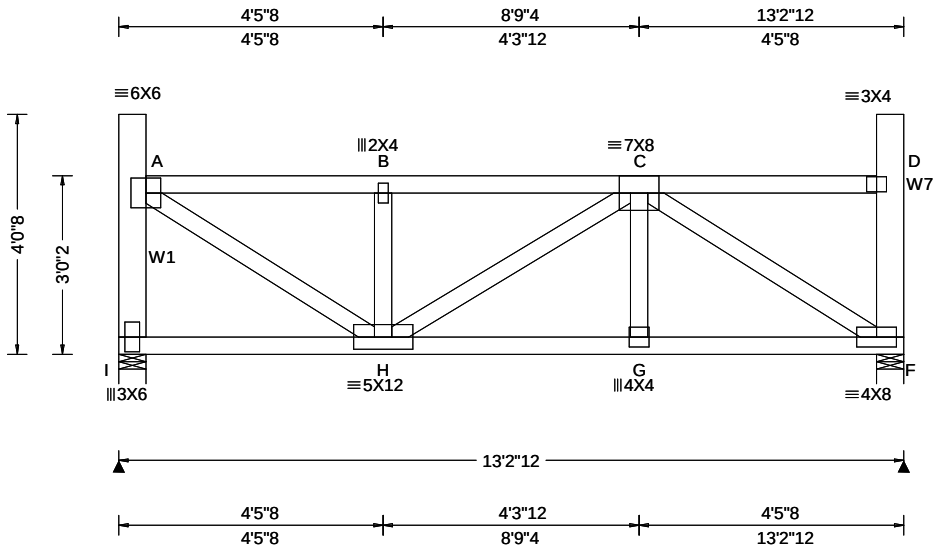
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34713 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T09	Cust: R 9316 JRef:1X1493160001 T21 DrwNo: 119.22.1137.53167 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.042 G 999 360 VERT(CL): 0.072 G 999 240 HORZ(LL): 0.014 F - - HORZ(TL): 0.024 F - - Creep Factor: 2.0 Max TC CSI: 0.296 Max BC CSI: 0.918 Max Web CSI: 0.785 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 1362 -/- /- /- /174 -/ F 1285 -/- /- /- /149 -/ Wind reactions based on MWFRS I Brg Wid = 5.5 Min Req = 2.1 (Truss) F Brg Wid = 5.5 Min Req = 2.0 (Truss) Bearings I & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 207 -1665 B - C 206 -1660

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads
-----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 50 plf at 0.00 to 50 plf at 13.23
BC: 188 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 186 lb Conc. Load at 7.17, 9.17

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

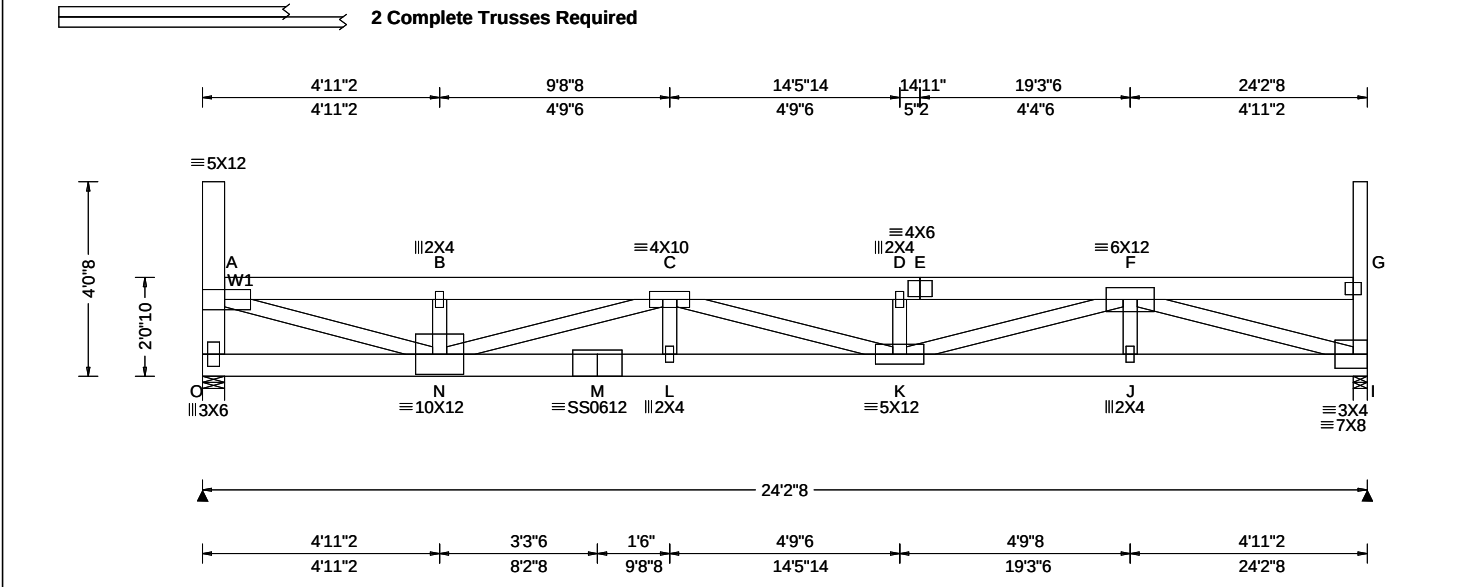
Additional Notes
Truss must be installed as shown with top chord up.



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SEQN: 34719 FROM:	FLAT Qty: 2	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T16	Cust: R 9316 JRef: 1X1493160001 T13 DrwNo: 119.22.1137.57290 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.265 D 999 360 VERT(CL): 0.454 D 639 240 HORZ(LL): 0.040 I - - HORZ(TL): 0.069 I - - Creep Factor: 2.0 Max TC CSI: 0.209 Max BC CSI: 0.603 Max Web CSI: 0.840 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL O 2301 - / - / - / 390 - / - I 2308 - / - / - / 396 - / - Wind reactions based on MWFRS O Brg Wid = 5.5 Min Req = 1.8 (Truss) I Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings O & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 515 - 2972 D - E 772 - 4360 B - C 514 - 2964 E - F 772 - 4360 C - D 772 - 4360

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 50 plf at 0.00 to 50 plf at 24.21
BC: 160 lb Conc. Load at 2.06, 10.06, 12.06, 14.06, 16.06, 20.06, 22.06
BC: 158 lb Conc. Load at 4.06, 6.06, 8.06, 18.06

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.99 34.38 4.14
23.92 0.00 23.46 1.99 34.38 4.14
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
N - M 4355 - 765 K - J 2960 - 523
M - L 4355 - 765 J - I 2960 - 523
L - K 4355 - 765

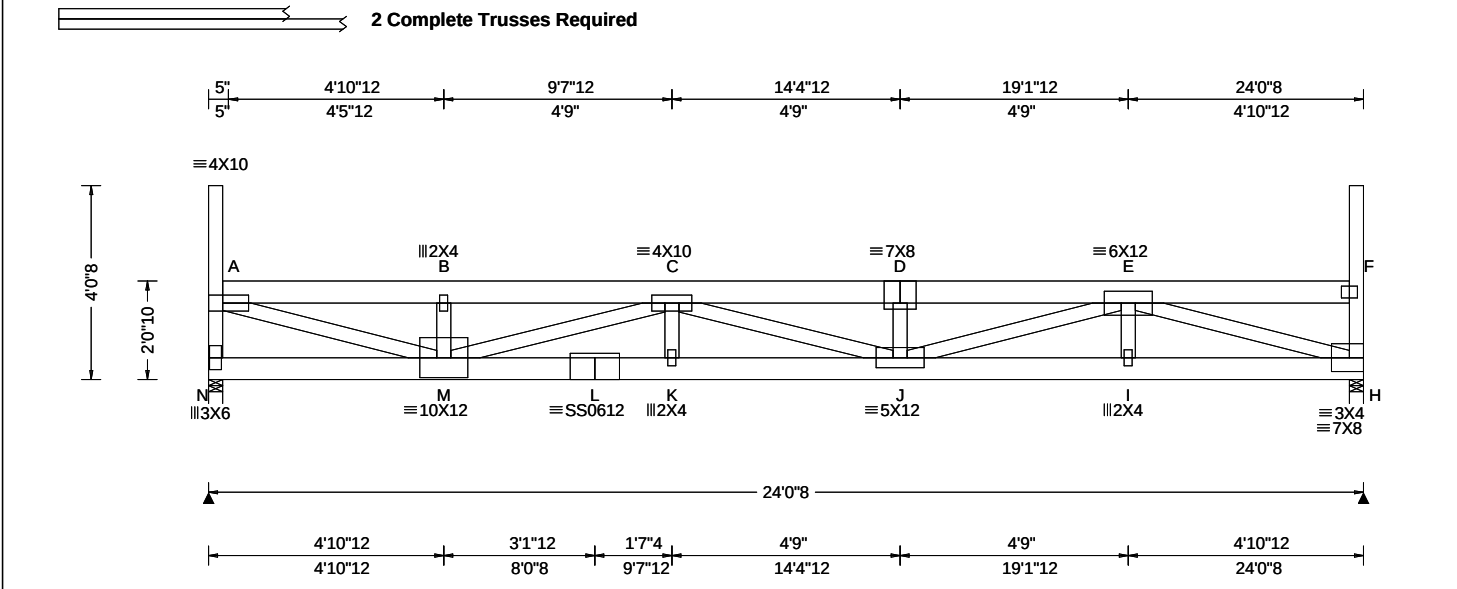
Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
O - A 171 - 1032 K - F 1475 - 263
A - N 2937 - 510 F - I 543 - 3070
N - C 264 - 1466



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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34722 FROM:	FLAT Qty: 2	Ply: 2	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T32	Cust: R 9316 JRef: 1X1493160001 T16 DrwNo: 119.22.1138.04813 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.259 D 999 360 VERT(CL): 0.444 D 650 240 HORZ(LL): 0.039 H - - HORZ(TL): 0.068 H - - Creep Factor: 2.0 Max TC CSI: 0.205 Max BC CSI: 0.595 Max Web CSI: 0.825 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 2310 - / - / - / 397 - / - H 2293 - / - / - / 396 - / - Non-Gravity Wind reactions based on MWFRS N Brg Wid = 3.5 Min Req = 1.8 (Truss) H Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 519 -2942 C - D 770 -4302 B - C 518 -2934 D - E 770 -4302

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @11.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 50 plf at 0.00 to 50 plf at 24.04
BC: 160 lb Conc. Load at 1.90, 7.90, 9.90, 11.90
13.90, 15.90, 19.90, 21.90
BC: 158 lb Conc. Load at 3.90, 5.90, 17.90

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.99 34.38 4.14
23.75 0.00 23.46 1.99 34.38 4.14
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	4302 -768	J - I	2922 -520
L - K	4302 -768	I - H	2922 -520
K - J	4302 -768		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - A	174 -1037	J - E	1456 -264
A - M	2963 -524	E - H	541 -3032
M - C	264 -1442		



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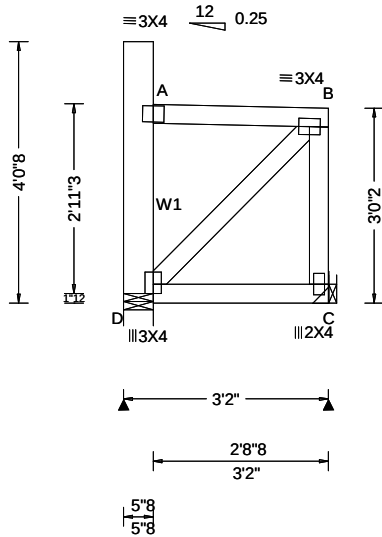
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 7

SEQN: 34701 / FROM:	MONO Ply: 1 Qty: 4	Job Number: JB-220680 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T48A	Cust: R 9316 JRef: 1X1493160001 T17 / DrwNo: 119.22.1045.17584 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.04 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.139 Max BC CSI: 0.109 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 139 /- /- /81 /42 /34 C 186 /- /- /113 /32 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Support) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



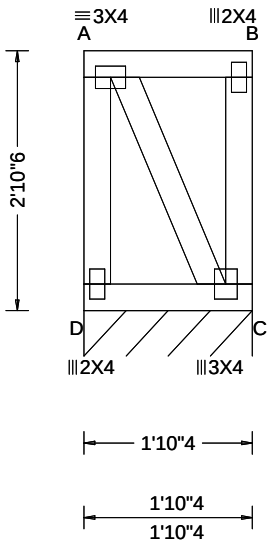
04/29/2022

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Building 7

SEQN: 34704 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE22	Cust: R 9316 JRef:1X1493160001 T7 DrwNo: 119.22.1138.13900 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.052 Max BC CSI: 0.037 Max Web CSI: 0.043 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /51 /6 /27 Wind reactions based on MWFRS C Brg Wid = 22.2 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

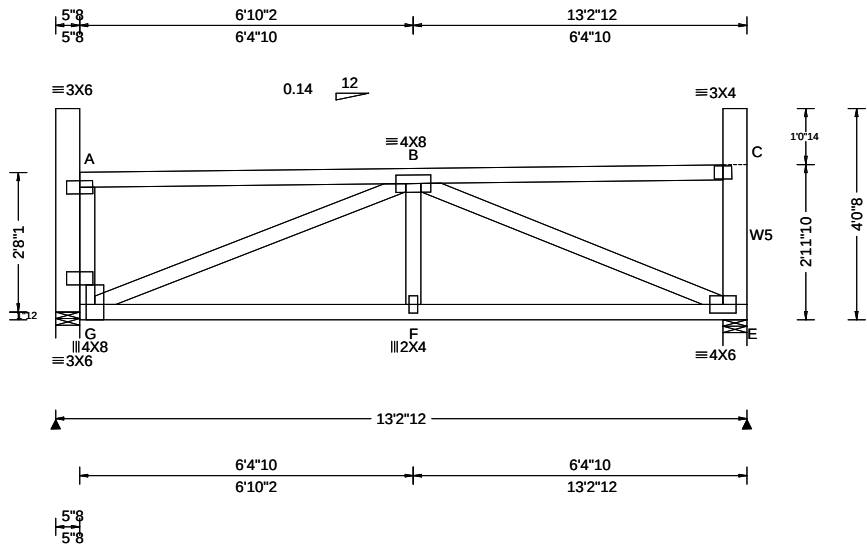


04/29/2022

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SEQN: 34731 FROM:	SPEC Ply: 1 Qty: 2	Job Number: JB-220680 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08	Cust: R 9316 JRef:1X1493160001 T20 DrwNo: 119.22.1137.47423 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.89 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.040 F 999 360 VERT(CL): 0.069 F 999 240 HORZ(LL): 0.014 E - - HORZ(TL): 0.024 E - - Creep Factor: 2.0 Max TC CSI: 0.708 Max BC CSI: 0.758 Max Web CSI: 0.954 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 759 /- /- /339 /58 /119 E 741 /- /- /330 /54 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1155 -149 F - E 1155 -149

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.22 9.66 2.33
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



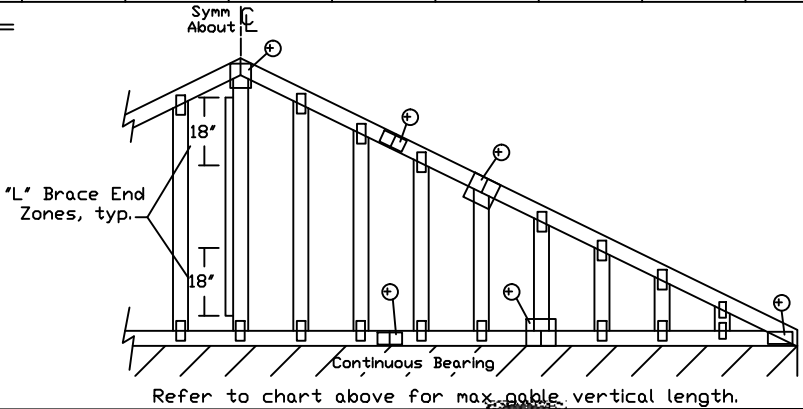
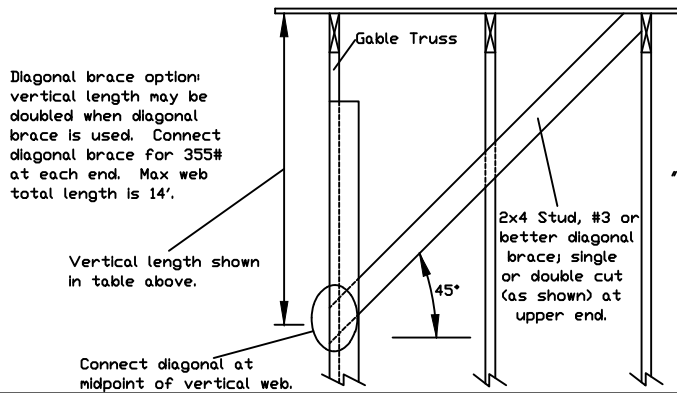
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Gable Stud Reinforcement Detail
ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.		SPF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
		DFL	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.		SPF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		DFL	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.		SPF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"



Bracing Group Species and Grades:														
Group A:														
Spruce-Pine-Fir							Hem-Fir							
#1 / #2	Standard			#2	Stud			#2	Stud			#3	Standard	
#3	Stud							#3	Standard					
Douglas Fir-Larch							Southern Pine***							
#3				#3				#3				#3		
Stud				Stud				Stud				Stud		
Standard				Standard				Standard				Standard		
Group B:														
Hem-Fir														
#1 & Btr				#1										
#1														
Douglas Fir-Larch							Southern Pine***							
#1				#1				#1				#1		
#2				#2				#2				#2		
1x4 Braces shall be SRB (Stress-Rated Board).														
***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.														

1x4 Braces shall be SRB (Stress-Rated Board).
***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:
Wind Load deflection criterion is L/240.
Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.
* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
** For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.
'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.



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For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"

REF ASCE7-16-GAB11530
DATE 01/26/2018
DRWG A11530ENC160118

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

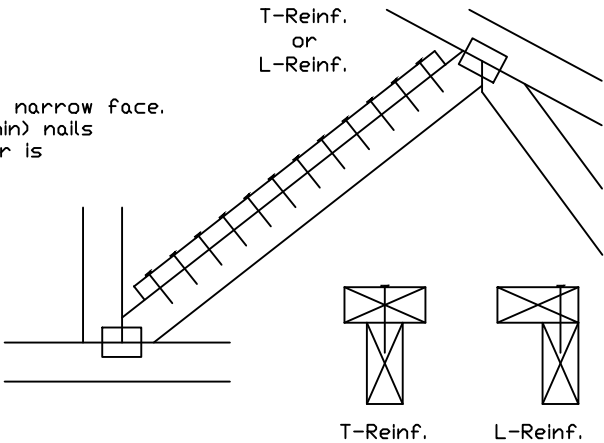
Web Member Size	Specified CLR Restraint	Alternative Reinforcement	
		T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(✕)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(✕)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(✕) Center scab on wide face of web. Apply (1) scab to each face of web.

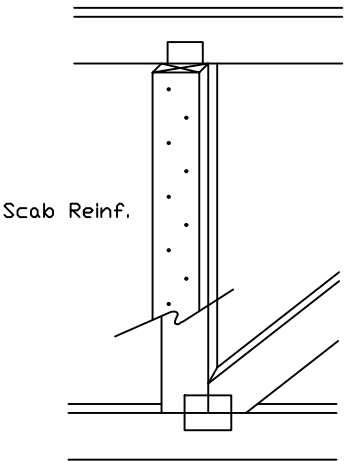
T-Reinforcement
or
L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.





AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

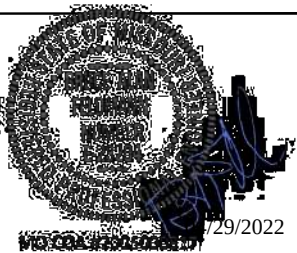
*****WARNING*** READ AND FOLLOW ALL NOTES ON THIS DRAWING**
*****IMPORTANT*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type

Recommended Camber

Pitched Trusses	$1.00 \times \text{Deflection from Actual Dead Load}$
Sloping Parallel Chord Trusses	$1.5 \times \text{Vertical Deflection from Actual Dead Load}$
Floor Trusses	$(0.25 \times \text{Deflection from Live Load}) + \text{Actual Dead Load}$
Flat Roof Trusses	$(0.25 \times \text{Deflection from Live Load}) + (1.5 \times \text{Design Dead Load Deflection})$

Note: The actual dead load may be considerably less than the design dead load.



155 Harlem Ave
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Glenview, IL 60025

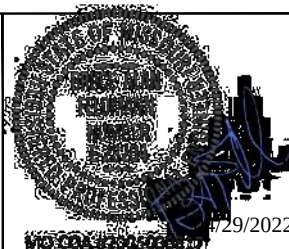
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For more information see this job's general notes page and these web sites:
ALPINE: www.alpinetw.com; TPI: www.tpinst.org; SBCE: www.sbcecomponents.com; ICC: www.iccsafe.org



REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

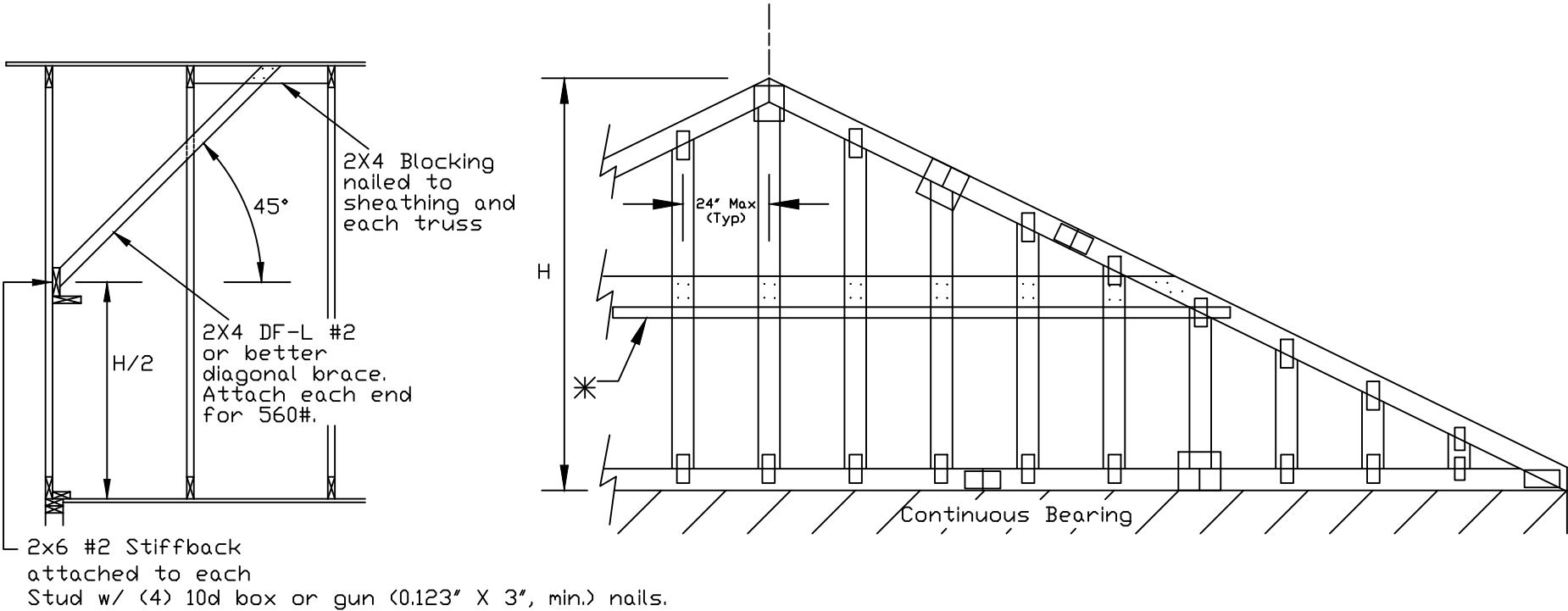
120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail
for lumber, plates, and other information not shown
on this detail.

Nails: 10d box or gun (0.128"x3",min) nails.

- H Less than 4'6" - no stud bracing required
- H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback
to roof diaphragm every 6'0" (see detail below or
refer to DRWG A12030ENC160118).
- H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace
to roof diaphragm every 4'0" (see detail below or
refer to DRWG A12030ENC160118).
- * Optional 2x L-reinforcement attached
to stiffback with 10d box or gun
(0.128" x 3", min.) nails @ 6" o.c.



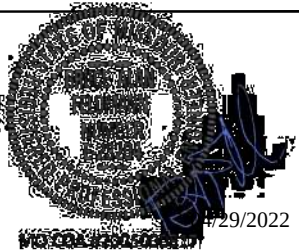
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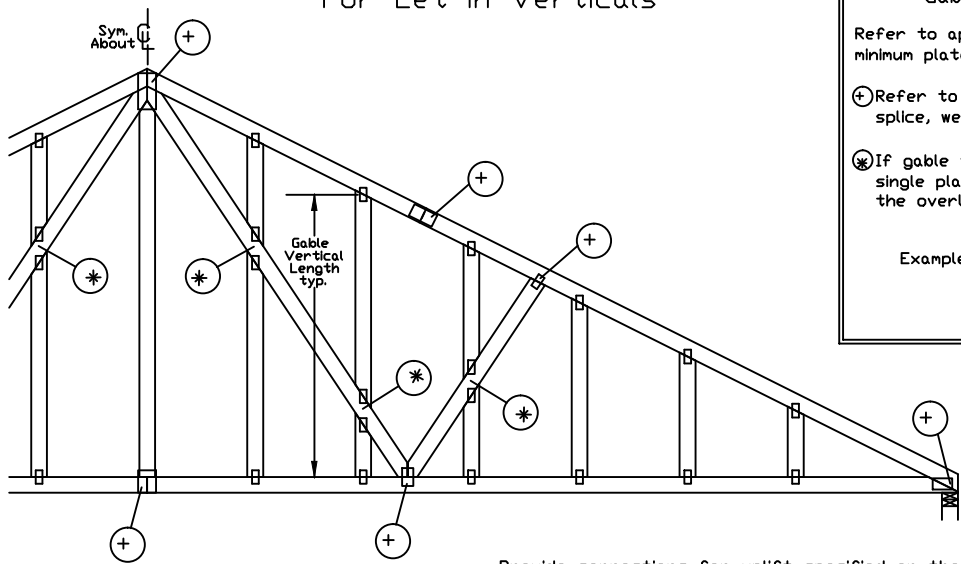
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



MAX. TOT. LD. 60 PSF
MAX. SPACING

REF GE WHALER
DATE 01/02/2018
DRWG GABRST160118

Gable Detail
For Let-in Verticals



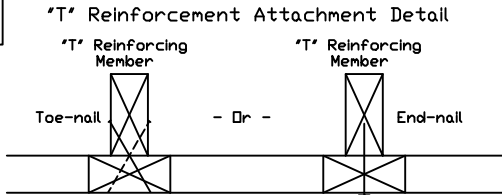
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148"x 3",min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x3",min) Toenails at 4' o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

- ASCE 7-05 Gable Detail Drawings
- A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014
- ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
- A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.

To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

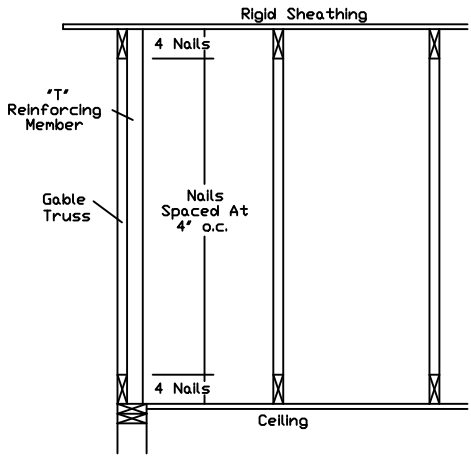
"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24' o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"



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Glenview, IL 60025

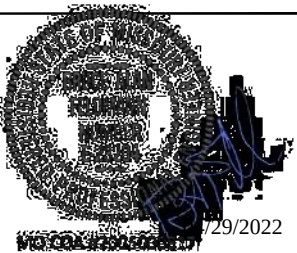
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For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF LET-IN VERT
DATE 01/02/2018
DRWG GBLLETIN0118



Structural Engineers – Since 1957

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

BOB D. CAMPBELL & CO., INC.

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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 8 Floor Layout Shop Drawings	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 8 Floor Layout

REVIEWED ☒	DATE RECIEVED:
REVIEWED AS NOTED ☐	DATE REVIEWED: 5/23/2022
REVISE AND RESUBMIT ☐	REVIEWED BY: michaela.silva

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



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	126	Simpson
=	THA422-2	4	Simpson

Total Plan Area with OHs = 4292 sq.ft

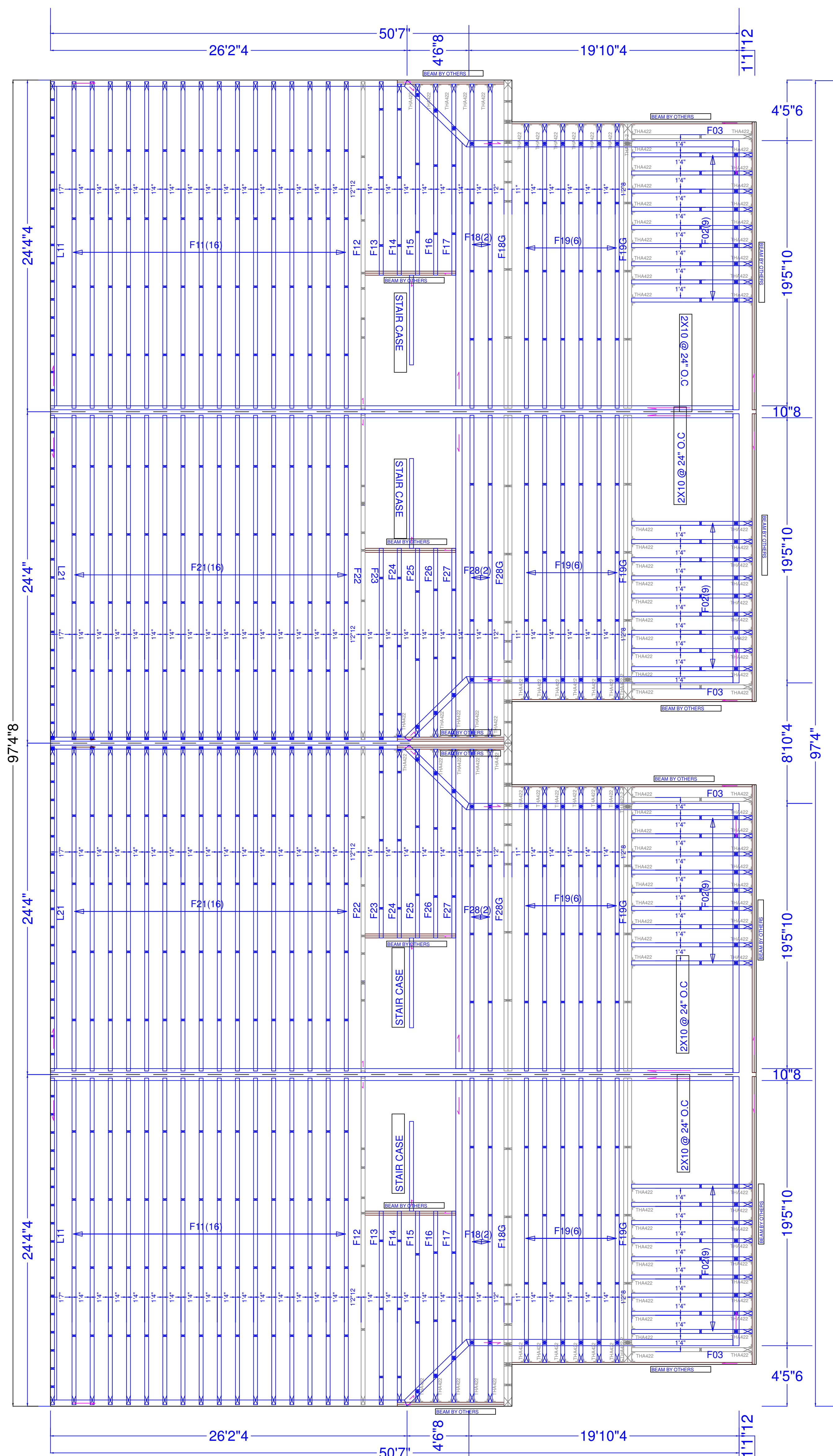
Total Truss Quantity = 180.

SHOP DRAWING REVIEW

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

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

REVIEWED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS



DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

Job Name:

McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220687

Date: 3/17/2022

Customer:	
-----------	--

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address:

2100 NW Lowenstein Dr
Lee's Summit
MO



3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

NOTE: Yellow ID Tag Location Indicate
Left/Front/Bottom of Truss



Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone: (800)326-4102 (314)344-9121
alpineitw.com

03/17/2022

REVIEWED ☒ DATE RECEIVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 5/23/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/10/2022 BY: CB

Site Information:		Page 1:	
Customer: Mill Creek Truss		Job Number: JB-220687	
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr			
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO			

Job Engineering Criteria:			
Design Code: IBC 2018		IntelliVIEW Version: 21.02.00	
		JRef #: 1XdX93160006	
Wind Standard: ASCE716	Wind Speed (mph): 0	Design Loading (psf): 75.00	
Building Type:			

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	076.22.1319.16346	F02	2	076.22.1319.16872	F03
3	076.22.1319.17264	F11	4	076.22.1319.23345	F12
5	076.22.1319.16966	F13	6	076.22.1319.16701	F14
7	076.22.1319.16798	F15	8	076.22.1319.17168	F16
9	076.22.1319.17318	F17	10	076.22.1319.16521	F18
11	076.22.1319.17238	F18G	12	076.22.1358.24117	F19
13	076.22.1319.22564	F19G	14	076.22.1319.16369	F21
15	076.22.1319.17452	F22	16	076.22.1319.16785	F23
17	076.22.1319.16412	F24	18	076.22.1319.17034	F25
19	076.22.1319.16695	F26	20	076.22.1319.16380	F27
21	076.22.1319.16644	F28	22	076.22.1319.16370	F28G
23	076.22.1319.17003	L11	24	076.22.1319.17150	L21
25	CNSY42PL0118		26	DEFLCAMB1014	
27	LSCSYX2A1014		28	STRBRIBR1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

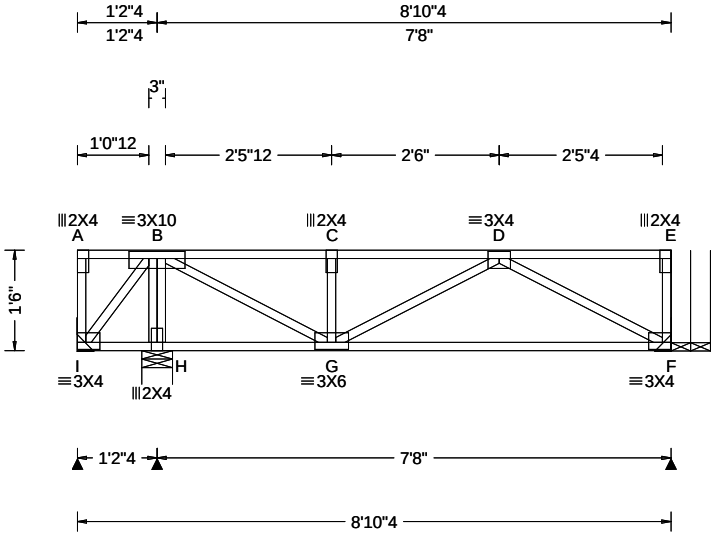
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

SEQN: 1416 / FROM:	SY42 Qty: 36	Ply: 1 Qty: 36	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F02	Cust: R 9316 JRef:1XdX93160006 T6 / DrwNo: 076.22.1319.16346 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA	Pg: NA	Ct: NA	CAT: NA	PP Deflection in loc L/def L/#			Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph	Pf: NA		Ce: NA	VERT(LL): 0.018 C 999 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA	Lu: NA	Cs: NA		VERT(CL): 0.034 C 999 360			I	28	/-43	/-	/-	/-	/-
BCDL: 10.00		Category: NA	Snow Duration: NA			HORZ(LL): 0.002 F - -			H	525	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA				HORZ(TL): 0.004 F - -			F	372	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft	Building Code:			Creep Factor: 2.0			I	Brg Wid = -			Min Req = -		
Soffit: 0.00		TCDL: NA psf	IBC 2018			Max TC CSI: 0.299			H	Brg Wid = 5.5			Min Req = 1.5 (Truss)		
Load Duration: 1.00		BCDL: NA psf	TPI Std: 2014			Max BC CSI: 0.301			F	Brg Wid = -			Min Req = -		
Spacing: 16.0 "		MWFRS Parallel Dist: NA	Rep Fac: Yes			Max Web CSI: 0.162			Bearing H is a rigid surface.						
		C&C Dist a: NA ft	FT/RT:12(0)/10(0)						Members not listed have forces less than 375#						
		Loc. from endwall: NA	Plate Type(s):						Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA	WAVE			VIEW Ver: 21.02.00.1005.17			Chords Tens.Comp. Chords Tens. Comp.						
		Wind Duration: NA													

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

G - F 473 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

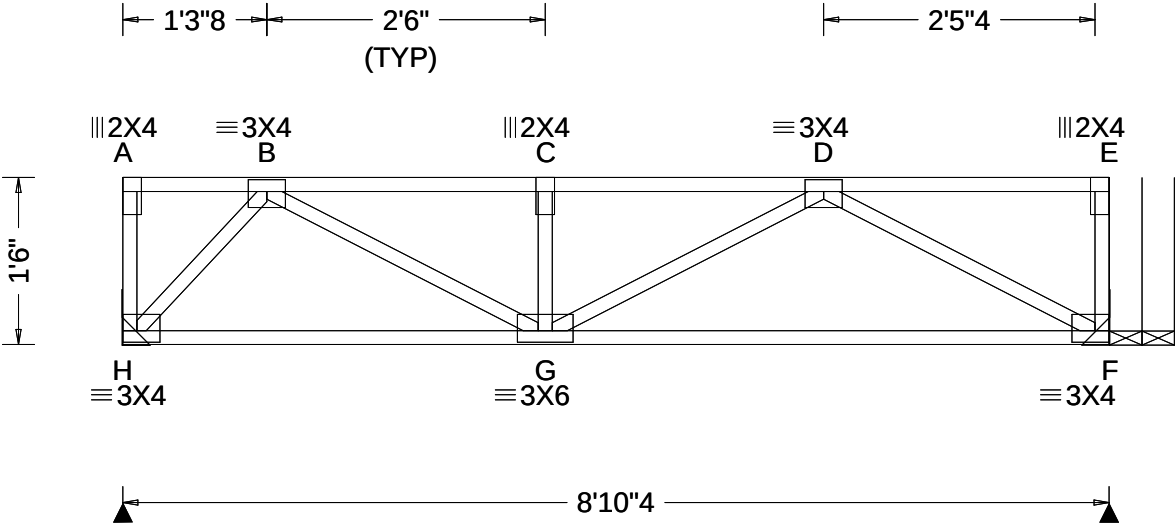
B - H 0 -499 D - F 0 -537
B - G 576 0



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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 11791 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F03	Cust: R 9316 JRef:1XdX93160006 T7 / DrwNo: 076.22.1319.16872 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)							
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/defl L/#			Gravity			Non-Gravity				
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.024 C 999 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.046 C 999 360			H	443	/-	/-	/-	/-	/-	
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): 0.004 B - -			F	443	/-	/-	/-	/-	/-	
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE			HORZ(TL): 0.008 B - -			H Brg Wid = - Min Req = -			F Brg Wid = - Min Req = -				
NCBCLL: 0.00		Mean Height: NA ft					Creep Factor: 2.0			Members not listed have forces less than 375#							
Soffit: 0.00		TCDL: NA psf					Max TC CSI: 0.298			Maximum Top Chord Forces Per Ply (lbs)							
Load Duration: 1.00		BCDL: NA psf		MWFRS Parallel Dist: NA			Max BC CSI: 0.324			Chords		Tens.Comp.		Chords		Tens. Comp.	
Spacing: 16.0 "		C&C Dist a: NA ft		Loc. from endwall: NA			Max Web CSI: 0.141			B - C		0 -747		C - D		0 -747	
		I: NA GCpi: NA															
		Wind Duration: NA					VIEW Ver: 21.02.00.1005.17			Maximum Bot Chord Forces Per Ply (lbs)							

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.



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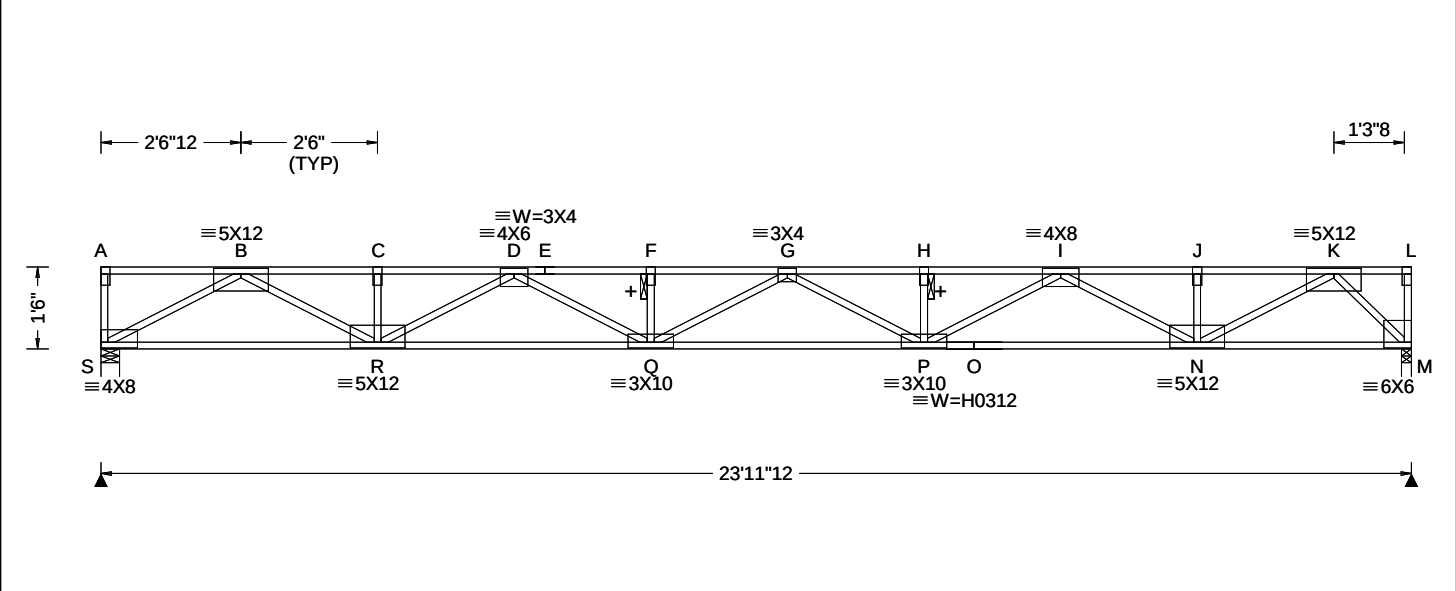
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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11793 / FROM:	SY42	Ply: 1 Qty: 32	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F11	Cust: R 9316 JRef:1XdX93160006 T28 / DrwNo: 076.22.1319.17264 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.414 G 695 480 VERT(CL): 0.775 G 371 360 HORZ(LL): 0.057 M - - HORZ(TL): 0.107 M - - Creep Factor: 2.0 Max TC CSI: 0.398 Max BC CSI: 0.672 Max Web CSI: 0.551 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1199 /- /- /- /- /- M 1199 /- /- /- /- /- S Brg Wid = 4.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3522 G - H 0 - 4917 C - D 0 - 3522 H - I 0 - 4917 D - E 0 - 5123 I - J 0 - 2895 E - F 0 - 5123 J - K 0 - 2895 F - G 0 - 5123

Lumber
Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	2010	P - O	4106
R - Q	4523	O - N	4106
Q - P	5219	N - M	1183

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
S - B	0 - 2281	P - I	925
B - R	1725	I - N	0 - 1382
R - D	0 - 1143	N - K	1954
D - Q	684	K - M	0 - 1648



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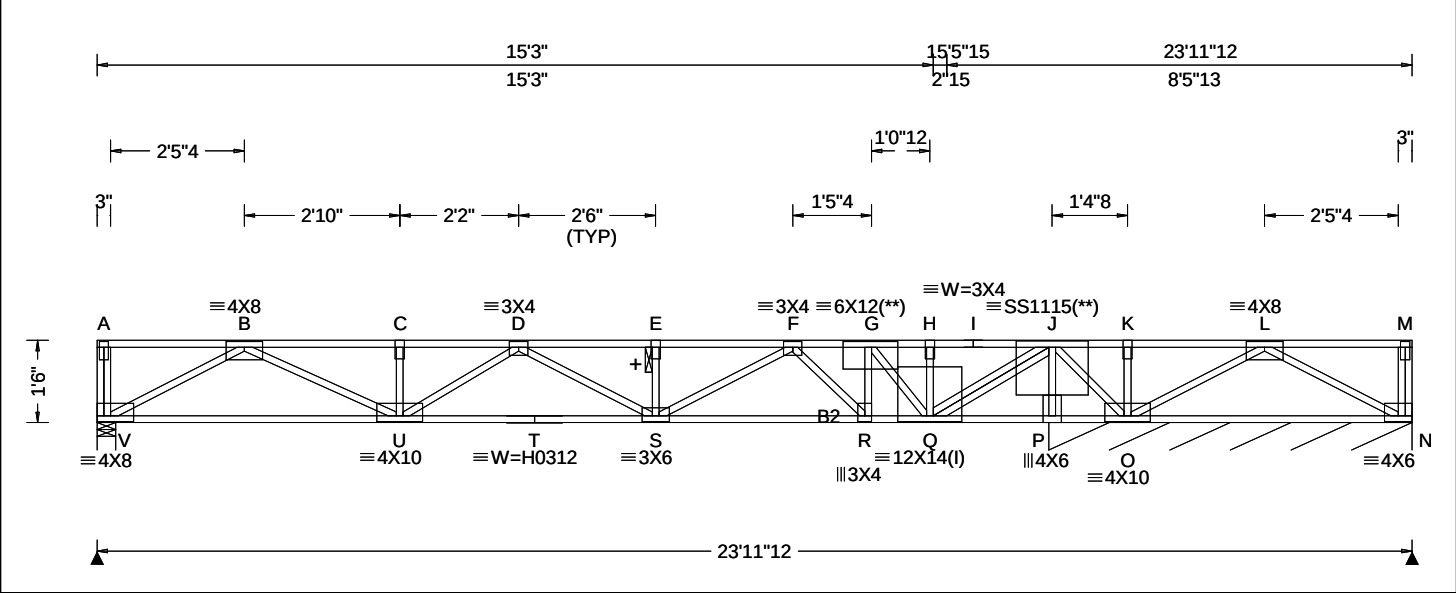
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 11795 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F12	Cust: R 9316 JRef:1XdX93160006 T1 / DrwNo: 076.22.1319.23345 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.201 E 999 480 VERT(CL): 0.377 E 545 360 HORZ(LL): 0.029 B - - HORZ(TL): 0.054 B - - Creep Factor: 2.0 Max TC CSI: 0.946 Max BC CSI: 0.960 Max Web CSI: 0.568 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL V 961 -/- -/- -/- -/- N* 443 -/- -/- -/- -/- -/- N -/-304 V Brg Wid = 4.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2615 G - H 0 -818 C - D 0 -2615 H - I 0 -818 D - E 0 -3202 I - J 0 -818 E - F 0 -3202 J - K 2031 0 F - G 0 -2426 K - L 2031 0

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads
-----(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes
All plates are 2X4 except as noted.
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.



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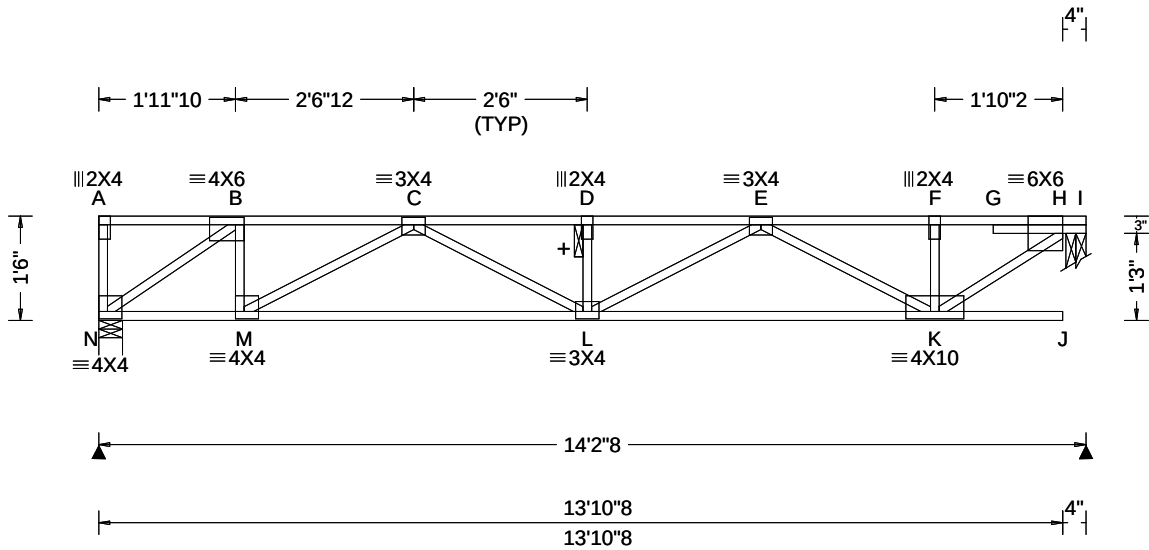
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Building 8

SEQN: 11797 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F13	Cust: R 9316 JRef:1XdX93160006 T23 / DrwNo: 076.22.1319.16966 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.096 D 999 480 VERT(CL): 0.179 D 942 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.620 Max BC CSI: 0.537 Max Web CSI: 0.329 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 702 -/- /- /- /- /- H 714 -/- /- /- /- /- N Brg Wid = 4.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -943 E - F 0 -943 C - D 0 -1836 F - H 0 -942 D - E 0 -1836 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. N - M 905 0 L - K 1574 0 M - L 1582 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 0 -1104 E - K 0 -721 B - M 416 0 K - H 1166 0 M - C 0 -734

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

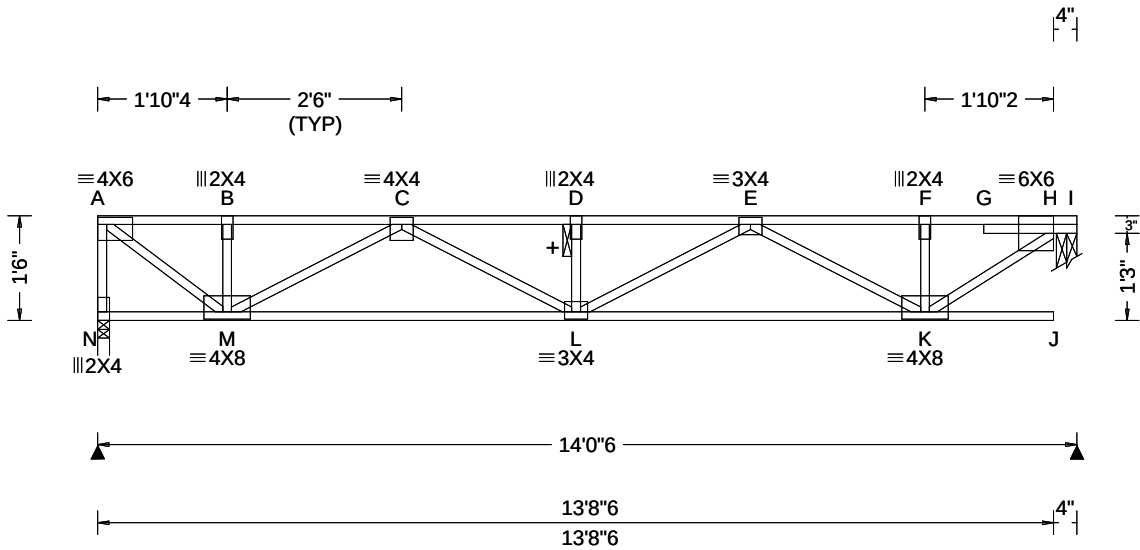


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SEQN: 11799 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F14	Cust: R 9316 JRef:1XdX93160006 T15 / DrwNo: 076.22.1319.16701 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.093 D 999 480 VERT(CL): 0.174 D 955 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.612 Max BC CSI: 0.524 Max Web CSI: 0.324 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 693 /- /- /- /- /- H 706 /- /- /- /- /- N Brg Wid = 2.0 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -849 D - E 0 -1791 B - C 0 -849 E - F 0 -929 C - D 0 -1791 F - H 0 -929

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1520 0	L - K	1546 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -690	E - K	0 -703
A - M	1057 0	K - H	1150 0
M - C	0 -766		

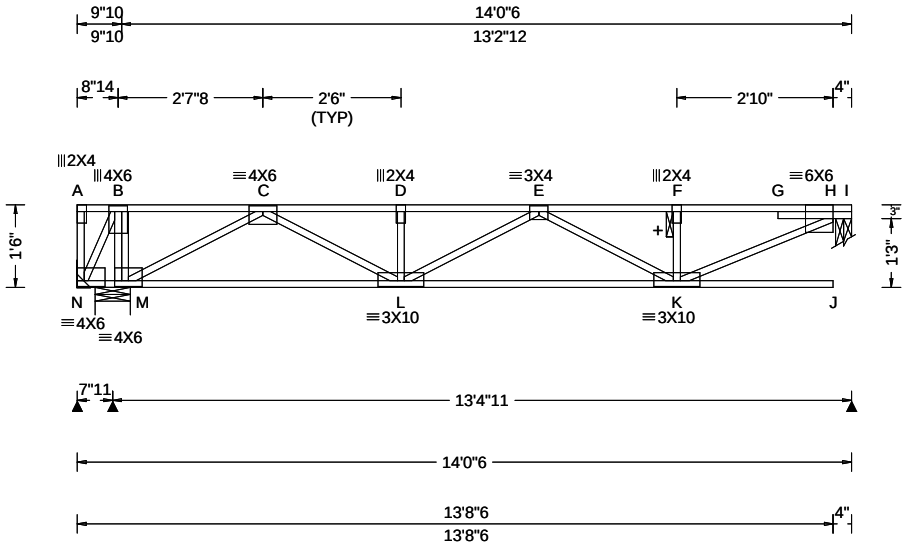


03/17/2022

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Suite 242
Earth City, Missouri 63045

SEQN: 1418 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F15	Cust: R 9316 JRef:1XdX93160006 T26 / DrwNo: 076.22.1319.16798 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/def L/#			Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.200 J 780 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.320 J 487 360			N	-	/-708	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): 0.011 C - -			N	1480	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code: IBC 2018			HORZ(TL): 0.020 C - -			H	618	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft					Creep Factor: 2.0			N Brg Wid = - Min Req = -						
Soffit: 0.00		TCDL: NA psf		TPI Std: 2014			Max TC CSI: 0.961			N Brg Wid = 7.7 Min Req = 1.5 (Truss)						
Load Duration: 1.00		BCDL: NA psf		Rep Fac: Yes			Max BC CSI: 0.588			H Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Spacing: 16.0 "		MWFRS Parallel Dist: NA		FT/RT:12(0)/10(0)			Max Web CSI: 0.339			Bearings N & H are a rigid surface.						
		C&C Dist a: NA ft		Plate Type(s):			VIEW Ver: 21.02.00.1005.17			Members not listed have forces less than 375#						
		Loc. from endwall: NA		WAVE						Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA					Chords Tens.Comp. Chords Tens. Comp.									
		Wind Duration: NA					B - C 400 0 E - F 0 -1087									

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	600 0	L - K	1318 0

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	685 0	C - L	693 0
B - M	0 -840	K - H	1201 0
M - C	0 -1141		

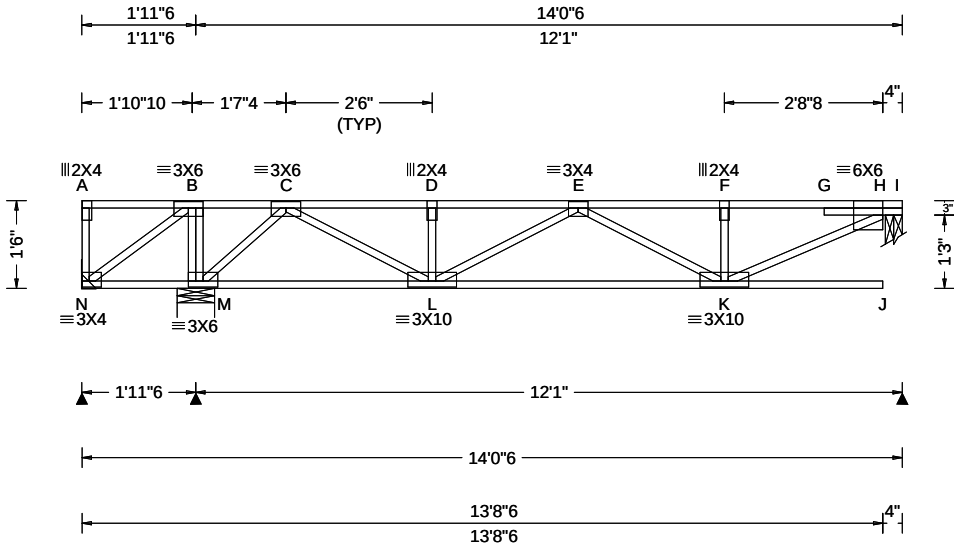


03/17/2022

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SEQN: 11803 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F16	Cust: R 9316 JRef:1XdX93160006 T33 / DrwNo: 076.22.1319.17168 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.159 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.283 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-323 /- /- /- /- M 1131 /- /- /- /- /- I 547 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 SPF #1/#2; Bot chord: 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. N - M 0 -469 L - K 1034 0
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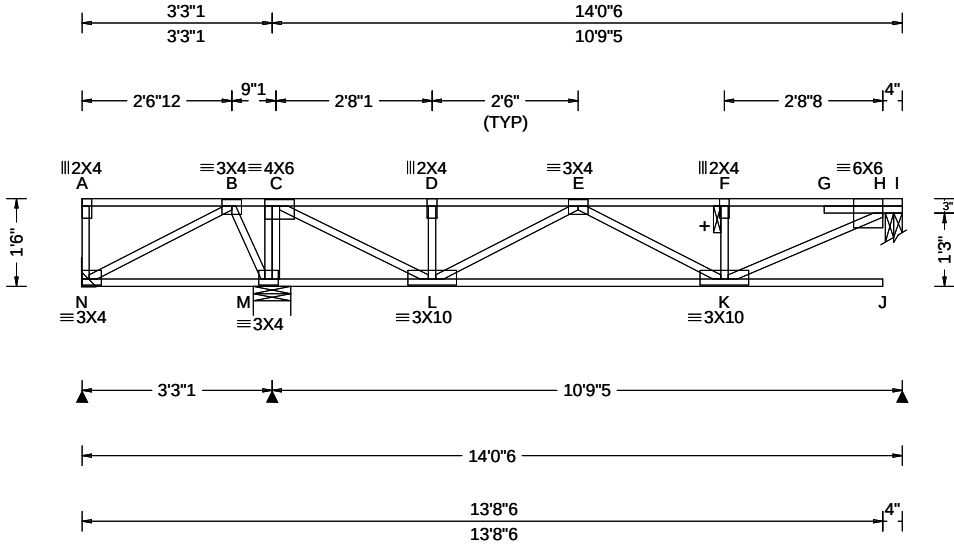
Deflection Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 580 0 C - L 816 0 B - M 0 -512 K - H 1004 0 M - C 0 -842
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Additional Notes See detail STRBRIBR1014 for bracing and bridging recommendations. Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less. Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. Truss must be installed as shown with top chord up.
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SEQN: 11805 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F17	Cust: R 9316 JRef:1XdX93160006 T20 / DrwNo: 076.22.1319.17318 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 870 480 VERT(CL): 0.233 J 550 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.749 Max BC CSI: 0.437 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 57 /-122 /- /- /- /- M 959 /- /- /- /- /- I 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens. Comp.	Chords	Tens. Comp.
L - K	818	0			
Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.	Webs	Tens. Comp.	Webs	Tens. Comp.
M - C	0	-627	K - H	874	0
C - L	963	0			

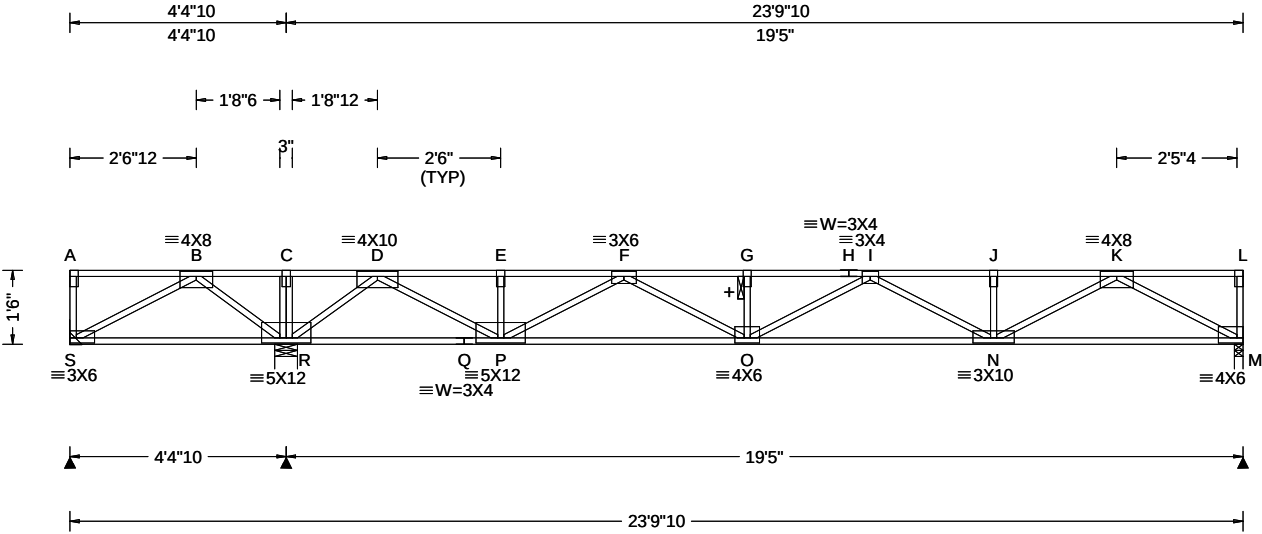


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Earth City, Missouri 63045

SEQN: 11809 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F18	Cust: R 9316 JRef:1XdX93160006 T16 / DrwNo: 076.22.1319.16521 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 G 999 480 VERT(CL): 0.371 G 628 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.796 Max Web CSI: 0.466 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-458 /- /- /- /- R 1886 /- /- /- /- /- M 844 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCMB1014 for camber recommendations.

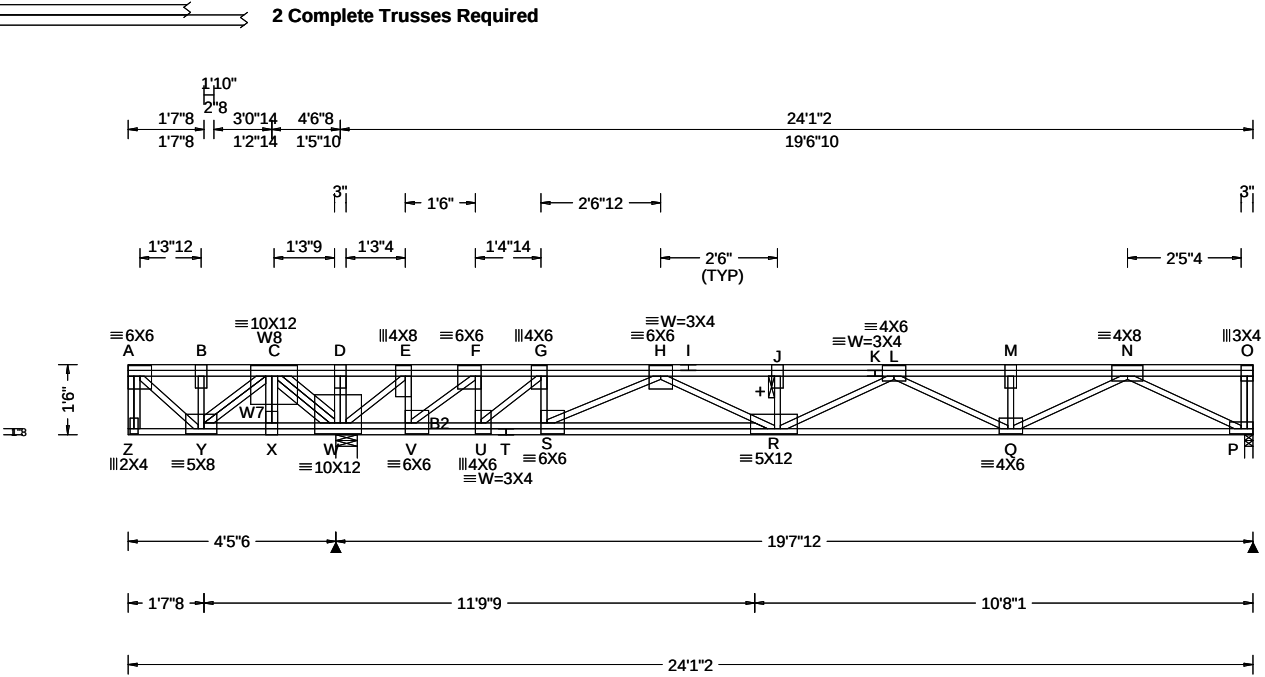
Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Negative reaction(s) of -458# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.
Truss must be installed as shown with top chord up.



03/17/2022

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SEQN: 11811 / FROM:	SY42 Qty: 2	Ply: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F18G	Cust: R 9316 JRef:1XdX93160006 T17 / DrwNo: 076.22.1319.17238 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.124 Z 435 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.263 Z 204 360		W 8317	-/-	-/-	-/-	-/-	-/-	-/-	
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): -0.027 A - -		P 962	-/-165	-/-	-/-	-/-	-/-	-/-	
Des Ld: 75.00		EXP: NA Kzt: NA				HORZ(TL): 0.058 A - -		W Brg Wid = 5.5 Min Req = 1.5 (Truss)							
NCBCLL: 0.00		Mean Height: NA ft				Creep Factor: 2.0		P Brg Wid = 2.1 Min Req = 1.5 (Truss)							
Soffit: 0.00		TCDL: NA psf		Building Code:		Max TC CSI: 0.885		Bearings W & P are a rigid surface.							
Load Duration: 1.00		BCDL: NA psf		IBC 2018		Max BC CSI: 0.247		Members not listed have forces less than 375#							
Spacing: 16.0 "		MWFRS Parallel Dist: NA		TPI Std: 2014		Max Web CSI: 0.249		Maximum Top Chord Forces Per Ply (lbs)							
		C&C Dist a: NA ft		Rep Fac: Varies by Ld Case				Chords		Tens.Comp.		Chords		Tens. Comp.	
		Loc. from endwall: NA		FT/RT:12(0)/10(0)				A - B		420 0		H - I		1554 -1705	
		I: NA GCpi: NA		Plate Type(s):				B - C		420 0		I - J		1554 -1705	
		Wind Duration: NA		WAVE				C - D		4753 0		J - K		1551 -1711	
								D - E		4749 -367		K - L		534 -1347	
								E - F		4209 -367		L - M		534 -1347	
								F - G		3615 -827		M - N		534 -1347	
								G - H		3087 -1193		N - O		534 -1347	
								H - I		2553 -1193		O - P		534 -1347	
								I - J		2019 -1193		P - Q		534 -1347	
								J - K		1551 -1711		Q - R		534 -1347	
								K - L		1551 -1711		R - S		534 -1347	
								L - M		534 -1347		S - T		534 -1347	
								M - N		534 -1347		T - U		534 -1347	
								N - O		534 -1347		U - V		534 -1347	
								O - P		534 -1347		V - W		534 -1347	
								P - Q		534 -1347		W - X		534 -1347	
								Q - R		534 -1347		X - Y		534 -1347	
								R - S		534 -1347		Y - Z		534 -1347	
								S - T		534 -1347		Z - AA		534 -1347	
								T - U		534 -1347		AA - AB		534 -1347	
								U - V		534 -1347		AB - AC		534 -1347	
								V - W		534 -1347		AC - AD		534 -1347	
								W - X		534 -1347		AD - AE		534 -1347	
								X - Y		534 -1347		AE - AF		534 -1347	
								Y - Z		534 -1347		AF - AG		534 -1347	
								Z - AA		534 -1347		AG - AH		534 -1347	
								AA - AB		534 -1347		AH - AI		534 -1347	
								AB - AC		534 -1347		AI - AJ		534 -1347	
								AC - AD		534 -1347		AJ - AK		534 -1347	
								AD - AE		534 -1347		AK - AL		534 -1347	
								AE - AF		534 -1347		AL - AM		534 -1347	
								AF - AG		534 -1347		AM - AN		534 -1347	
								AG - AH		534 -1347		AN - AO		534 -1347	
								AH - AI		534 -1347		AO - AP		534 -1347	
								AI - AJ		534 -1347		AP - AQ		534 -1347	
								AJ - AK		534 -1347		AQ - AR		534 -1347	
								AK - AL		534 -1347		AR - AS		534 -1347	
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								AM - AN		534 -1347		AT - AU		534 -1347	
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								AQ - AR		534 -1347		AX - AY		534 -1347	
								AR - AS		534 -1347		AY - AZ		534 -1347	
								AS - AT		534 -1347		AZ - BA		534 -1347	
								AT - AU		534 -1347		BA - BB		534 -1347	
								AU - AV		534 -1347		BB - BC		534 -1347	
								AV - AW		534 -1347		BC - BD		534 -1347	
								AW - AX		534 -1347		BD - BE		534 -1347	
								AX - AY		534 -1347		BE - BF		534 -1347	
								AY - AZ		534 -1347		BF - BG		534 -1347	
								AZ - BA		534 -1347		BG - BH		534 -1347	
								BA - BB		534 -1347		BH - BI		534 -1347	
								BB - BC		534 -1347		BI - BJ		534 -1347	
								BC - BD		534 -1347		BJ - BK		534 -1347	
								BD - BE		534 -1347		BK - BL		534 -1347	
								BE - BF		534 -1347		BL - BM		534 -1347	
								BF - BG		534 -1347		BM - BN		534 -1347	
								BG - BH		534 -1347		BN - BO		534 -1347	
								BH - BI		534 -1347		BO - BP		534 -1347	
								BI - BJ		534 -1347		BP - BQ		534 -1347	
								BJ - BK		534 -1347		BQ - BR		534 -1347	
								BK - BL		534 -1347		BR - BS		534 -1347	
								BL - BM		534 -1347		BS - BT		534 -1347	
								BM - BN		534 -1347		BT - BU		534 -1347	
								BN - BO		534 -1347		BU - BV		534 -1347	
								BO - BP		534 -1347		BV - BW		534 -1347	
								BP - BQ		534 -1347		BW - BX		534 -1347	
								BQ - BR		534 -1347		BX - BY		534 -1347	
								BR - BS		534 -1347		BY - BZ		534 -1347	
								BS - BT		534 -1347		BZ - CA		534 -1347	
								BT - BU		534 -1347		CA - CB		534 -1347	
								BU - BV		534 -1347		CB - CC		534 -1347	
								BV - BW		534 -1347		CC - CD		534 -1347	
								BW - BX		534 -1347		CD - CE		534 -1347	
								BX - BY		534 -1347		CE - CF		534 -1347	
								BY - BZ		534 -1347		CF - CG		534 -1347	
								BZ - CA		534 -1347		CG - CH		534 -1347	
								CA - CB		534 -1347		CH - CI		534 -1347	
								CB - CC		534 -1347		CI - CJ		534 -1347	
								CC - CD		534 -1347		CJ - CK		534 -1347	
								CD - CE		534 -1347		CK - CL		534 -1347	
								CE - CF		534 -1347		CL - CM		534 -1347	
								CF - CG		534 -1347		CM - CN		534 -1347	
								CG - CH		534 -1347		CN - CO		534 -1347	
								CH - CI		534 -1347		CO - CP		534 -1347	
								CI - CJ		534 -1347		CP - CQ		534 -1347	
								CJ - CK		534 -1347		CQ - CR		534 -1347	
								CK - CL		534 -1347		CR - CS		534 -1347	
								CL - CM		534 -1347		CS - CT		534 -1347	
								CM - CN		534 -1347		CT - CU		534 -1347	
								CN - CO		534 -1347		CU - CV		534 -1347	
								CO - CP		534 -1347		CV - CW		534 -1347	
								CP - CQ		534 -1347		CW - CX		534 -1347	
								CQ - CR		534 -1347		CX - CY		534 -1347	
								CR - CS		534 -1347		CY - CZ		534 -1347	
								CS - CT		534 -1347		CZ - DA		534 -1347	
								CT - CU		534 -1347		DA - DB		534 -1347	
								CU - CV		534 -1347		DB - DC		534 -1347	
								CV - CW		534 -1347		DC - DD		534 -1347	
								CW - CX		534 -1347		DD - DE		534 -1347	
								CX - CY		534 -1347		DE - DF		534 -1347	
								CY - CZ		534 -1347		DF - DG		534 -1347	
								CZ - DA		534 -1347		DG - DH		534 -1347	
								DA - DB		534 -1347		DH - DI		534 -1347	
								DB - DC		534 -1347		DI - DJ		534 -1347	
								DC - DD		534 -1347		DJ - DK		534 -1347	
								DD - DE		534 -1347		DK - DL		534 -1347	
								DE - DF		534 -1347		DL - DM		534 -1347	
								DF - DG		534 -1347		DM - DN		534 -1347	
								DG - DH		534 -1347		DN - DO		534 -1347	
								DH - DI		534 -1347		DO - DP		534 -1347	
								DI - DJ		534 -1347		DP - DQ		534 -1347	
								DJ - DK		534 -1347		DQ - DR		534 -1347	
								DK - DL		534 -1347		DR - DS		534 -1347	
								DL - DM		534 -1347		DS - DT		534 -1347	
								DM - DN		534 -1347		DT - DU		534 -1347	
								DN - DO		534 -1347		DU - DV		534 -1347	
								DO - DP		534 -1347		DV - DW		534 -1347	
								DP - DQ		534 -1347		DW - DX		534 -1347	
								DQ - DR		534 -1347		DX - DY		534 -1347	
								DR - DS		534 -1347		DY - DZ		534 -1347	
								DS - DT		534 -1347		DZ - EA		534 -1347	
								DT - DU		534 -1347		EA - EB		534 -1347	
								DU - DV		534 -1347		EB - EC		534 -1347	
								DV - DW		534 -1347		EC - ED		534 -1347	
								DW - DX		534 -1347		ED - EE		534 -1347	
								DX - DY		534 -1347		EE - EF		534 -1347	
								DY - DZ		534 -1347		EF - EG		534 -1347	
								DZ - EA		534 -1347		EG - EH		534 -1347	
								EA - EB		534 -1347		EH - EI		534 -1347	

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads
----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes
All plates are 3X6 except as noted.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Y - X	0 -1228	T - S	1169 -3130
X - W	0 -1219	S - R	1563 -2265
W - V	329 -4254	R - Q	1631 -993
V - U	793 -3663	Q - P	784 -222
U - T	1169 -3130		

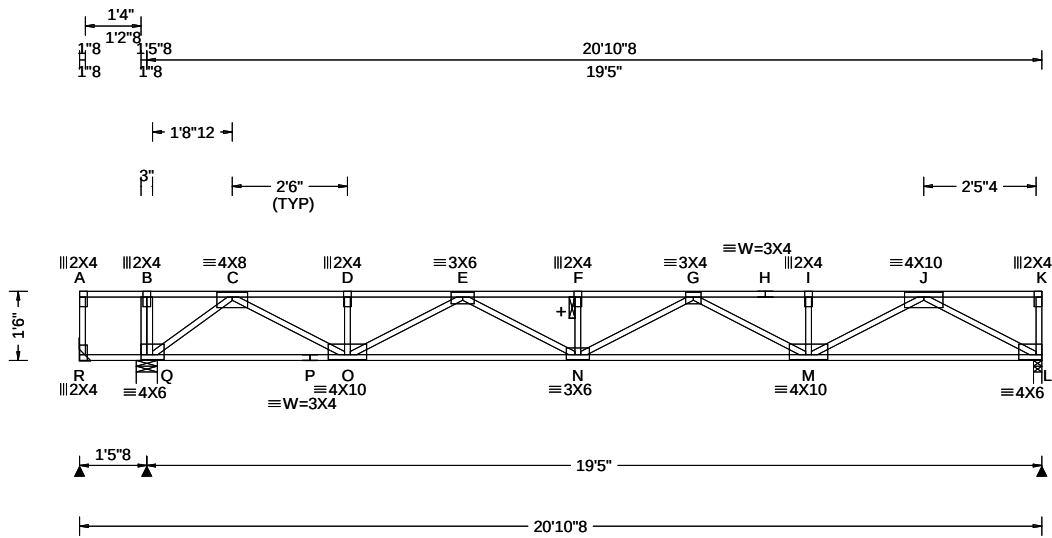
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - Y	0 -548	G - S	539 0
Y - C	1053 0	S - H	0 -1139
C - W	0 -4787	H - R	869 0
W - E	0 -999	R - L	89 -626
E - V	636 0	L - Q	518 -321
V - F	0 -1035	Q - N	636 -353
F - U	652 0	N - P	250 -860
U - G	0 -919		

03/17/2022
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 1414 FROM:	SY42 Qty: 24	Ply: 1 Qty: 24	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F19	Cust: R 9316 JRef:1XdX93160006 T34 DrwNo: 076.22.1358.24117 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.246 F 943 480 VERT(CL): 0.462 F 502 360 HORZ(LL): 0.038 L - - HORZ(TL): 0.072 L - - Creep Factor: 2.0 Max TC CSI: 0.485 Max BC CSI: 0.960 Max Web CSI: 0.397 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL R 27 /-42 /- /- /- /- Q 1134 /- /- /- /- /- L 962 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens.	Comp.	
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.	Webs	Tens.	Comp.	
Q - C	0	-1383	G - M	0	-654
C - O	1407	0	M - J	1233	0
O - E	0	-839	J - L	0	-1782
E - N	387	0			



03/17/2022

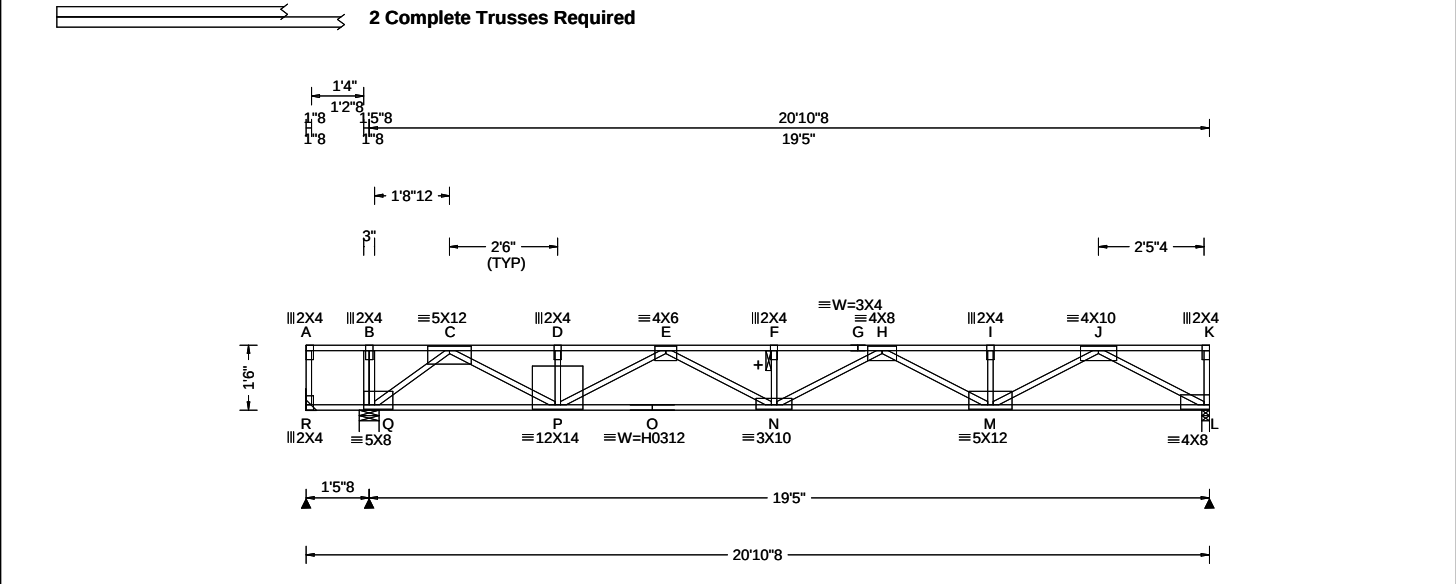
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCEA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

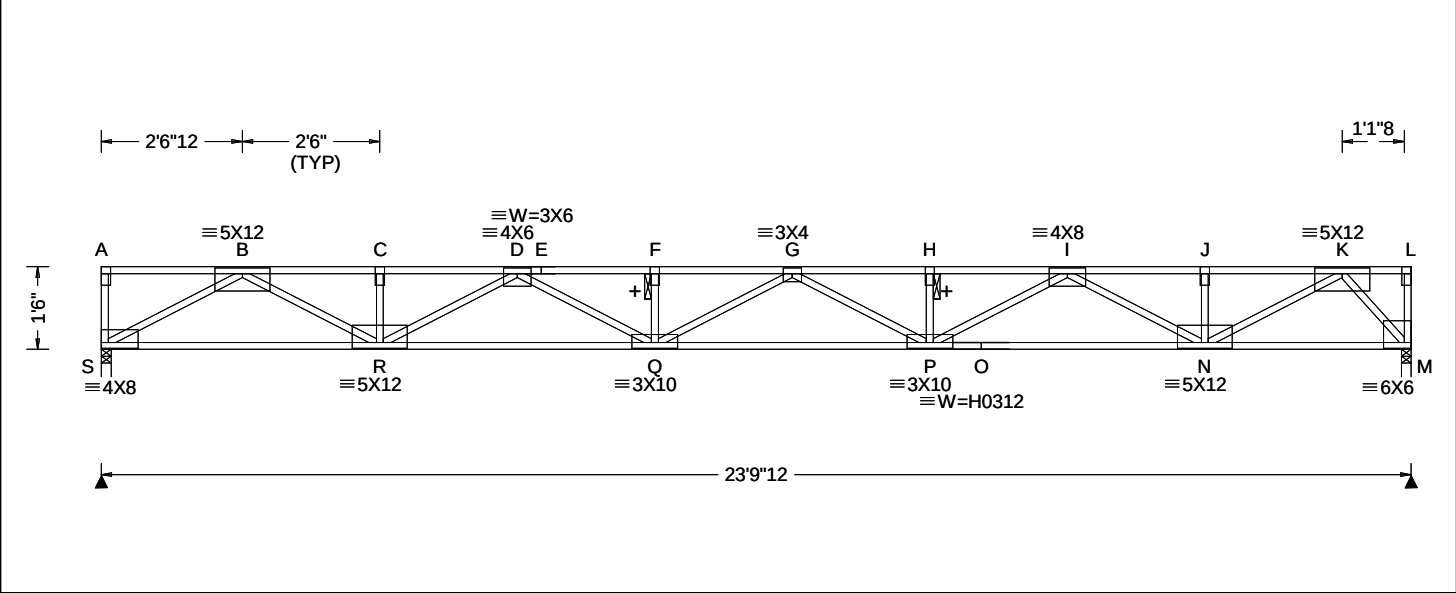
ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 9802 / FROM:	SY42 Qty: 4	Ply: 2 Qty: 4	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F19G	Cust: R 9316 JRef:1XdX93160006 T8 / DrwNo: 076.22.1319.22564 / NDW 03/17/2022
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Building 8

SEQN: 11813 / FROM:	SY42 Qty: 32	Ply: 1 Qty: 32	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F21	Cust: R 9316 JRef:1XdX93160006 T19 / DrwNo: 076.22.1319.16369 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.419 G 682 480 VERT(CL): 0.785 G 364 360 HORZ(LL): 0.056 M - - HORZ(TL): 0.104 M - - Creep Factor: 2.0 Max TC CSI: 0.442 Max BC CSI: 0.664 Max Web CSI: 0.556 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1191 /- /- /- /- /- M 1191 /- /- /- /- /- S Brg Wid = 2.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3491 G - H 0 - 4826 C - D 0 - 3491 H - I 0 - 4826 D - E 0 - 5062 I - J 0 - 2773 E - F 0 - 5062 J - K 0 - 2773 F - G 0 - 5062

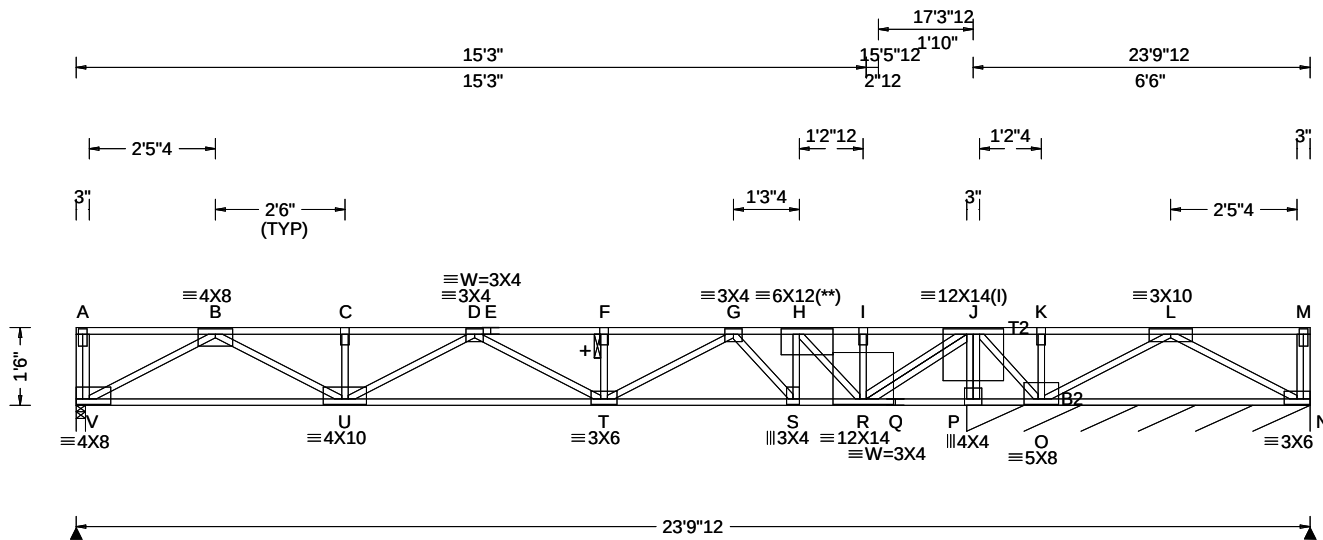
Lumber Top chord: 4x2 SPF 2100f-1.8E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;	Plating Notes All plates are 2X4 except as noted.	Deflection Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. S - R 1995 0 P - O 4000 0 R - Q 4479 0 O - N 4000 0 Q - P 5145 0 N - M 1047 0	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - B 0 - 2264 P - I 942 0 B - R 1707 0 I - N 0 - 1401 R - D 0 - 1127 N - K 1969 0 D - Q 665 0 K - M 0 - 1557
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03/17/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	 514 Earth City Expressway Suite 242 Earth City, Missouri 63045
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SEQN: 11815 / FROM:	SY42 Qty: 2	Job Number: JB-220687 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F22	Cust: R 9316 JRef: 1XdX93160006 T2 / DrwNo: 076.22.1319.17452 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs), or *=PLF					
TCLL: 40.00	Wind Std: NA	Pg: NA	Ct: NA	CAT: NA	PP Deflection in	loc L/defl	L/#	Gravity			Non-Gravity				
TCDL: 25.00	Speed: NA mph	Pf: NA		Ce: NA	VERT(LL):	0.179 F	999 480	Loc	R+	/R-	/Rh	/Rw	/U	/RL	
BCLL: 0.00	Enclosure: NA	Lu: NA	Cs: NA		VERT(CL):	0.335 F	613 360	V	961	/-	/-	/-	/-	/-	
BCDL: 10.00	Category: NA	Snow Duration: NA			HORZ(LL):	0.026 B	- -	N*	441	/-	/-	/-	/-	/-	
Des Ld: 75.00	EXP: NA Kzt: NA				HORZ(TL):	0.049 B	- -	N	/-246						
NCBCLL: 0.00	Mean Height: NA ft	Building Code:			Creep Factor:	2.0		V	Brg Wid = 2.1 Min Req = 1.5 (Truss)						
Soffit: 0.00	TCDL: NA psf	IBC 2018			Max TC CSI:	0.504		N	Brg Wid = 79.5 Min Req = -						
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014			Max BC CSI:	0.472		Bearings V & P are a rigid surface.							
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No			Max Web CSI:	0.548		Members not listed have forces less than 375#							
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)						Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: NA	Plate Type(s):						Chords	Tens.	Comp.	Chords	Tens.	Comp.		
	I: NA GCpi: NA	WAVE			VIEW Ver:	21.02.00.1005.17		B - C	0	- 2565	G - H	0	- 2521		
	Wind Duration: NA								0	- 2565	U	0	- 2521		

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC:	From	87 plf at	0.00 to	87 plf at	23.81
BC:	From	13 plf at	0.00 to	13 plf at	23.81
TC:	1500 lb Conc. Load at 13.90				

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



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▲ Maximum Reactions (lbs), or * = PLF

Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	441	/-	/-	/-	/-	/-
N	/ -246					
V	Brg Wid = 2.1 Min Req = 1.5 (Truss)					
N	Brg Wid = 79.5 Min Req = -					

Bearings V & P are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	0 - 2565	G - H	0 - 2521
C - D	0 - 2565	H - I	0 - 698
D - E	0 - 3256	I - J	0 - 698
E - F	0 - 3256	J - K	1825 0
F - G	0 - 3256	K - L	1825 0

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
V - U	1507	0	R - Q	0	- 2561
U - T	3113	0	Q - P	0	- 2561
T - S	2904	0	P - O	0	- 2561
S - R	2477	0	O - N	0	- 681

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
V - B	0 - 1714	H - R	0 - 2670
B - U	1208 0	R - J	3882 0
U - D	0 - 625	J - P	0 - 3088
T - G	402 0	J - O	1065 0
G - S	0 - 598	O - L	0 - 1307
S - H	486 0	L - N	779 0

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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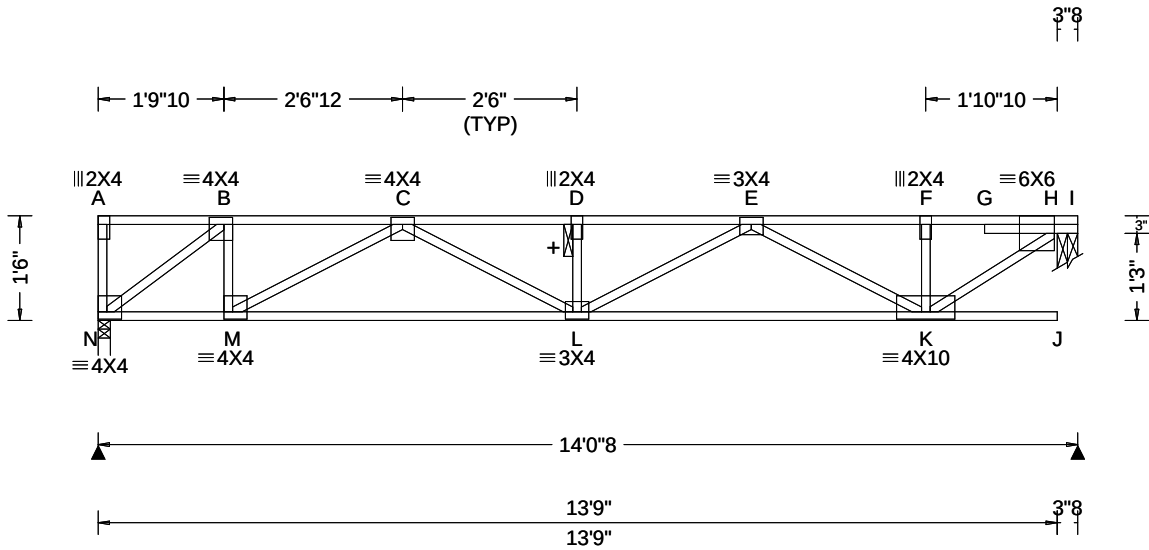
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBCA: sbaccomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 8

SEQN: 11817 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F23	Cust: R 9316 JRef:1XdX93160006 T25 / DrwNo: 076.22.1319.16785 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.092 D 999 480 VERT(CL): 0.172 D 970 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.613 Max BC CSI: 0.522 Max Web CSI: 0.325 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 694 /- /- /- /- /- H 707 /- /- /- /- /- N Brg Wid = 2.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -869 E - F 0 -931 C - D 0 -1793 F - H 0 -930 D - E 0 -1793 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. N - M 831 0 L - K 1548 0 M - L 1525 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 0 -1045 E - K 0 -704 B - M 425 0 K - H 1152 0 M - C 0 -752

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.



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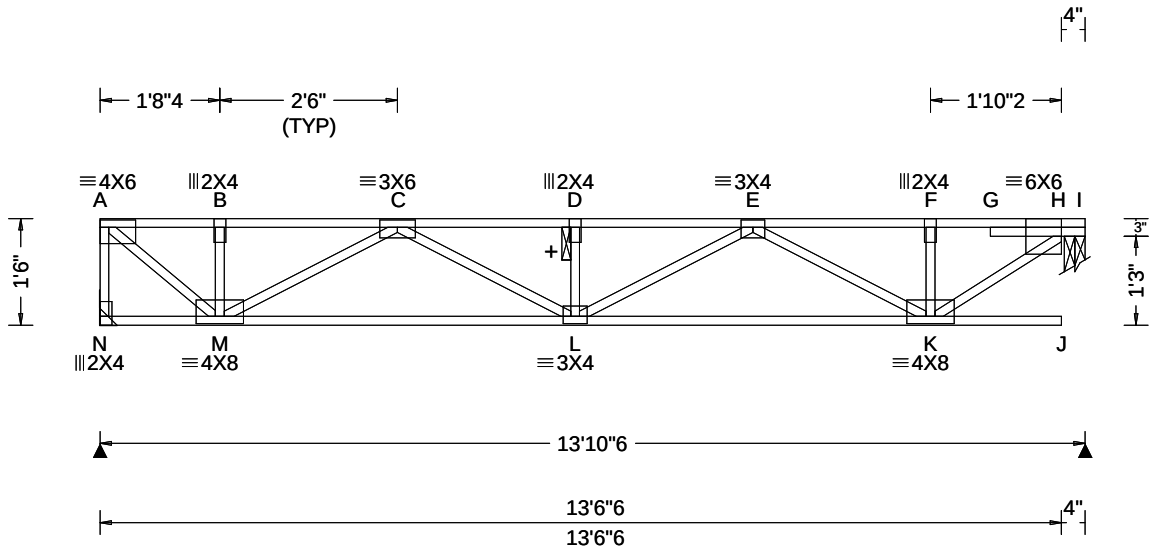
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514 Earth City Expressway
Suite 242
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SEQN: 11821 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F24	Cust: R 9316 JRef:1XdX93160006 T3 / DrwNo: 076.22.1319.16412 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.090 D 999 480 VERT(CL): 0.167 D 982 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.604 Max BC CSI: 0.513 Max Web CSI: 0.320 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 685 /- /- /- /- /- H 697 /- /- /- /- /- N Brg Wid = - Min Req = - H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -776 D - E 0 -1749 B - C 0 -776 E - F 0 -917 C - D 0 -1749 F - H 0 -916

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1463 0	L - K	1518 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -684	E - K	0 -687
A - M	1001 0	K - H	1134 0
M - C	0 -784		



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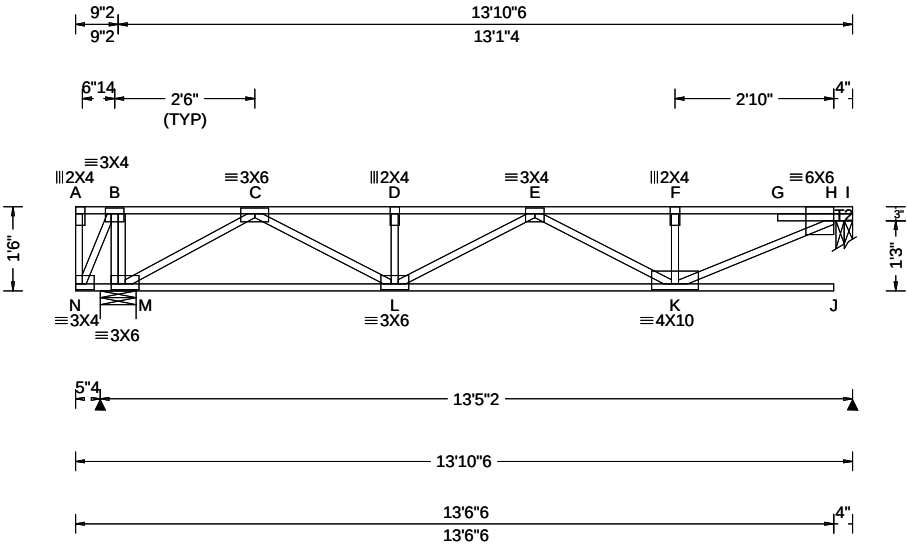
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SEQN: 11823 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F25	Cust: R 9316 JRef:1XdX93160006 T11 / DrwNo: 076.22.1319.17034 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 J 784 480 VERT(CL): 0.316 J 488 360 HORZ(LL): 0.013 A - - HORZ(TL): 0.024 A - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.630 Max Web CSI: 0.367 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL M 729 /- /- /- /- /- H 659 /- /- /- /- /- M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 0 -1447 E - F 0 -1177 D - E 0 -1447 F - H 0 -1178

Lumber
Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging
recommendations.
Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
M - L	912	L - K	1482	0
Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens. Comp.	
M - C	0 -1015	K - H	1301	0
C - L	614			

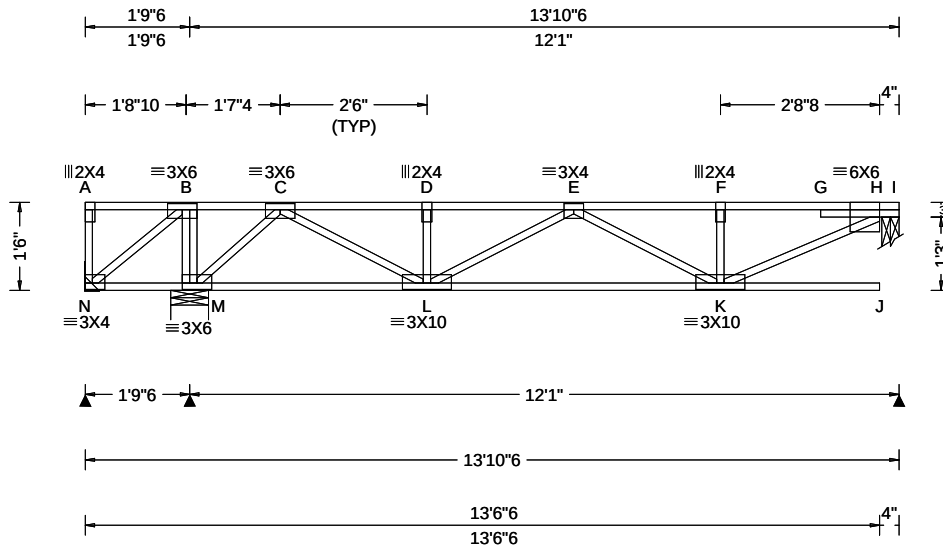


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SEQN: 11825 / FROM:	SY42 	Ply: 1 Qty: 2	Job Number: JB-220687 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F26	Cust: R 9316 JRef: 1XdX93160006 T5 / DrwNo: 076.22.1319.16695 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)					
TCLL: 40.00	Wind Std: NA	Pg: NA	Ct: NA	CAT: NA	PP Deflection in loc L/defl L/#			Gravity			Non-Gravity				
TCDL: 25.00	Speed: NA mph	Pf: NA	Ce: NA		VERT(LL): 0.158 J	897	480	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00	Enclosure: NA	Lu: NA	Cs: NA		VERT(CL): 0.249 J	570	360	N	-	/-358	/-	/-	/-	/-	
BCDL: 10.00	Category: NA	Snow Duration: NA			HORZ(LL): 0.007 C	-	-	M	1154	/-	/-	/-	/-	/-	
Des Ld: 75.00	EXP: NA Kzt: NA				HORZ(TL): 0.013 C	-	-	H	547	/-	/-	/-	/-	/-	
NCBCLL: 0.00	Mean Height: NA ft	Building Code:			Creep Factor: 2.0			N	Brg Wid = -		Min Req = -				
Soffit: 0.00	TCDL: NA psf	IBC 2018			Max TC CSI: 0.823			M	Brg Wid = 7.7		Min Req = 1.5 (Truss)				
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014			Max BC CSI: 0.493			H	Brg Wid = 3.5		Min Req = 1.5 (Truss)				
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes			Max Web CSI: 0.284			Bearings M & H are a rigid surface.							
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)						Members not listed have forces less than 375#							
	Loc. from endwall: NA	Plate Type(s):						Maximum Top Chord Forces Per Ply (lbs)							
	I: NA GCpi: NA	WAVE						Chords	Tens.Comp.	Chords	Tens.	Comp.			
	Wind Duration: NA				VIEW Ver: 21.02.00.1005.17										

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail
DEFLCAMB1014 for camber recommendations.

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

B - C	510	0	E - F	0	-902
C - D	0	-819	F - H	0	-903
D - E	0	-819			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	0 - 465	L - K	1035 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	596 0	C - L	815 0
B - M	0 -533	K - H	1005 0
M - C	0 -843		



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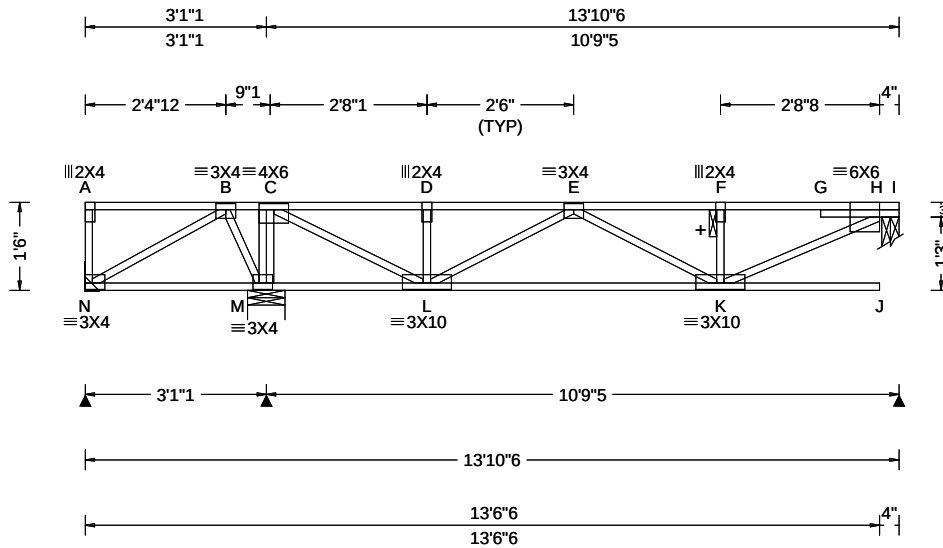
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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 11827 /	SY42	Ply: 1	Job Number: JB-220687	Cust: R 9316 JRef:1XdX93160006 T9 /
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 076.22.1319.16380
			Truss Label: F27	/ NDW 03/17/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 40.00	Wind Std: NA	Pg: NA	Ct: NA	CAT: NA	PP Deflection in loc L/defl L/#			Gravity								
TCDL: 25.00	Speed: NA mph	Pf: NA	Ce: NA		VERT(LL): 0.147 J 869 480			Loc	R+	/R-	/Rh	Non-Gravity				
BCLL: 0.00	Enclosure: NA	Lu: NA	Cs: NA		VERT(CL): 0.233 J 549 360											
BCDL: 10.00	Category: NA	Snow Duration: NA			HORZ(LL): 0.004 C - -			N	44	/-139	/-	/-	/-	/-		
Des Ld: 75.00	EXP: NA Kzt: NA				HORZ(TL): 0.007 C - -			M	963	/-	/-	/-	/-	/-		
NCBCLL: 0.00	Mean Height: NA ft				Creep Factor: 2.0			H	491	/-	/-	/-	/-	/-		
Soffit: 0.00	TCDL: NA psf	Building Code:			Max TC CSI: 0.748			N	Brg Wid = -		Min Req = -					
Load Duration: 1.00	BCDL: NA psf	IBC 2018			Max BC CSI: 0.436			M	Brg Wid = 7.7		Min Req = 1.5 (Truss)					
Spacing: 16.0 "	MWFRS Parallel Dist: NA	TPI Std: 2014			Max Web CSI: 0.272			H	Brg Wid = 3.5		Min Req = 1.5 (Truss)					
	C&C Dist a: NA ft	Rep Fac: Yes						Bearings M & H are a rigid surface.								
	Loc. from endwall: NA	FT/RT:12(0)/10(0)						Members not listed have forces less than 375#								
	I: NA GCpi: NA	Plate Type(s):						Maximum Top Chord Forces Per Ply (lbs)								
	Wind Duration: NA	WAVE						Chords Tens.Comp. Chords Tens. Comp.								
					VIEW Ver: 21.02.00.1005.17											

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.

B - C	427	0	E - F	0	-782
C - D	0	-495	F - H	0	-784
D - E	0	-495			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	
L - K	815	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
M - C	0 - 633	K - H	872 0
C - L	964 0		



03/17/2022

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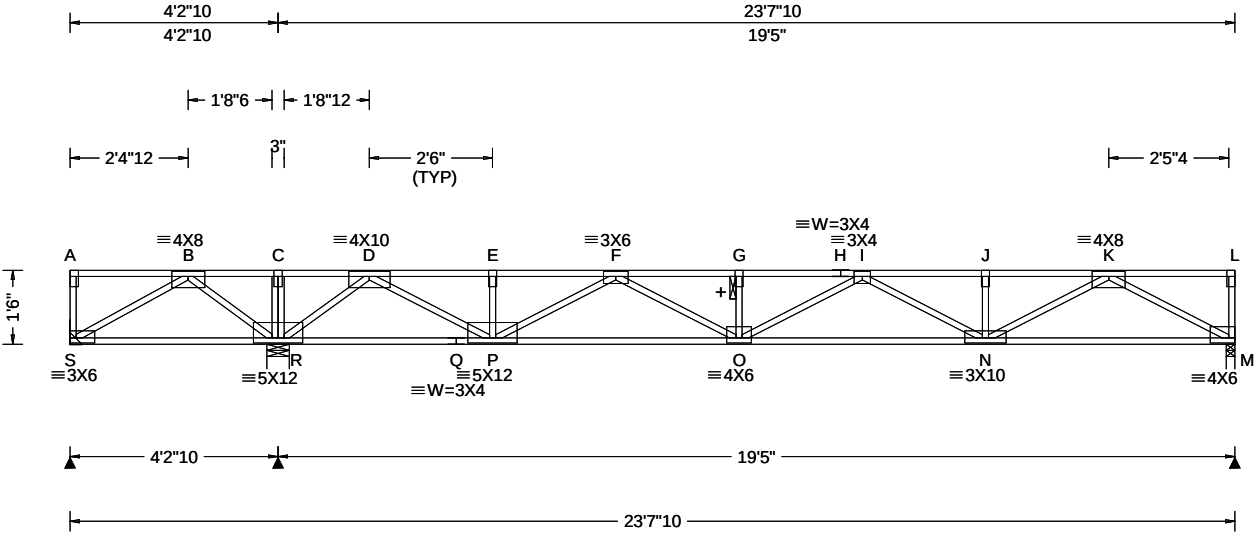
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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 11829 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F28	Cust: R 9316 JRef:1XdX93160006 T10 / DrwNo: 076.22.1319.16644 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.196 G 999 480 VERT(CL): 0.369 G 630 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.795 Max Web CSI: 0.467 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-490 /- /- /- /- R 1906 /- /- /- /- /- M 843 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Negative reaction(s) of -490# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	0 -944	P - O	1976 0
R - Q	0 -440	O - N	2573 0
Q - P	0 -440	N - M	1350 0

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
S - B	1088 0	F - O	633 0
B - R	0 -1142	I - N	0 -408
R - D	0 -1649	N - K	988 0
D - P	1656 0	K - M	0 -1532
P - F	0 -1087		

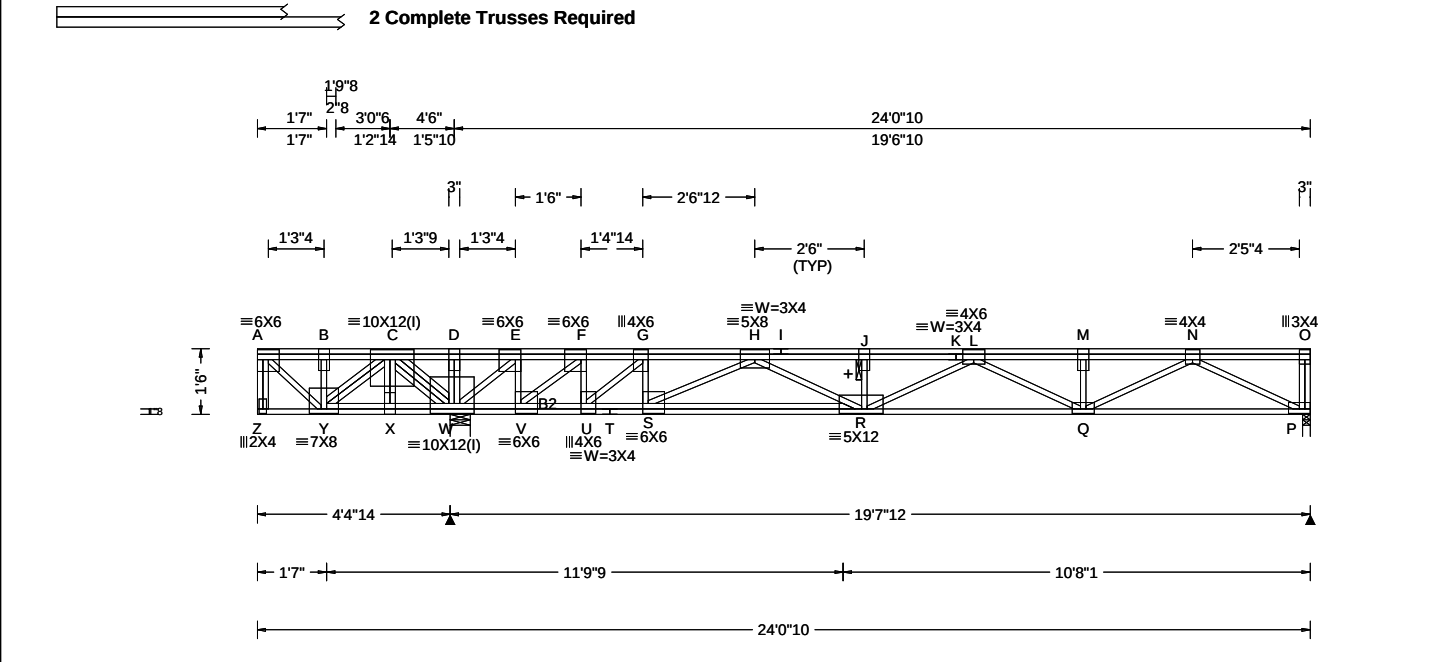


03/17/2022

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SEQN: 11832 / FROM:	SY42 Qty: 2	Ply: 2 Qty: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F28G	Cust: R 9316 JRef:1XdX93160006 T12 / DrwNo: 076.22.1319.16370 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.120 A 443 480 VERT(CL): 0.268 Z 198 360 HORZ(LL): -0.025 A - - HORZ(TL): 0.057 A - - Creep Factor: 2.0 Max TC CSI: 0.433 Max BC CSI: 0.260 Max Web CSI: 0.271 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL W 8750 /- /- /- /- /- P 618 /-243 /- /- /- /- W Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings W & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 597 0 H - I 1855 -383 B - C 597 0 I - J 1855 -383 C - D 5342 0 J - K 1853 -389 D - E 5337 0 K - L 1853 -389 E - F 4767 0 L - M 685 -689 F - G 4126 0 M - N 685 -689 G - H 3551 0

Lumber	Special Loads
Top chord: 4x2 DF-L 2400f-2.0E; Bot chord: 4x2 DF-L 2400f-2.0E; B2 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2;	----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00) TC: From 87 plf at 0.00 to 87 plf at 24.05 BC: From 13 plf at 0.00 to 13 plf at 24.05 TC: 1129 lb Conc. Load at 0.12 TC: 5500 lb Conc. Load at 3.03

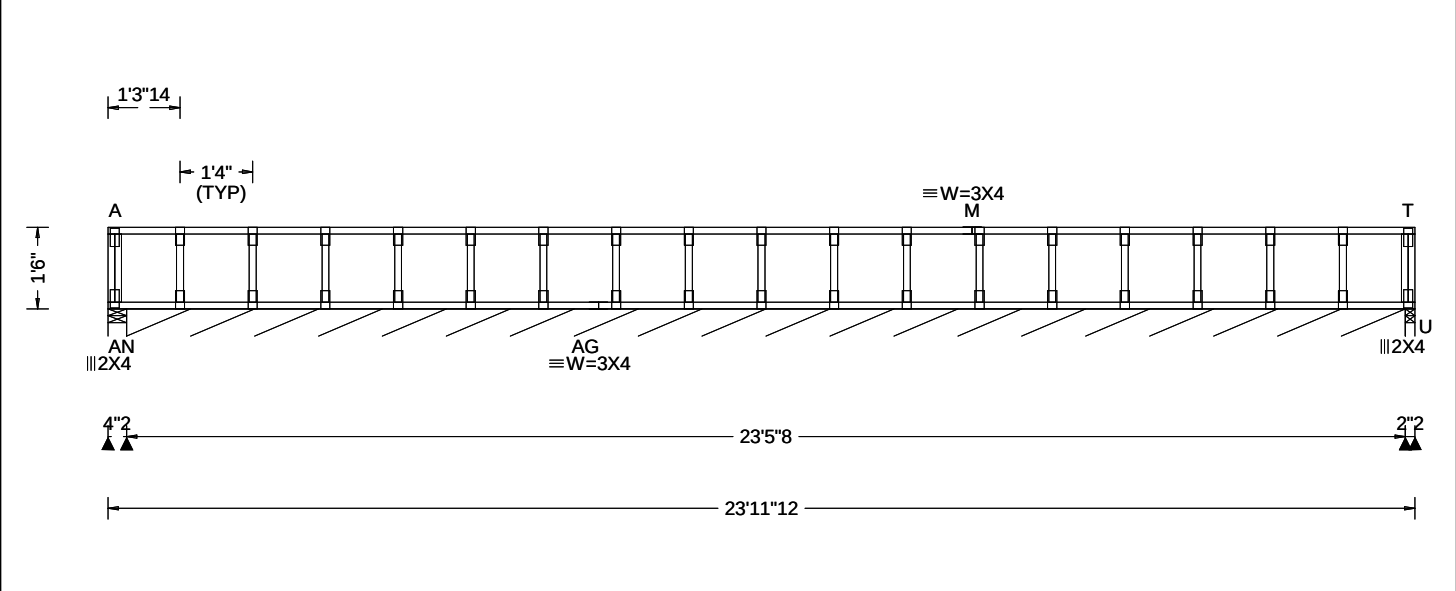
Plating Notes	Maximum Bot Chord Forces Per Ply (lbs)
All plates are 3X6 except as noted. (I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.	Chords Tens.Comp. Chords Tens. Comp. Y - X 0 -1645 T - S 0 -3597 X - W 0 -1635 S - R 0 -2646 W - V 0 -4815 R - Q 647 -1215 V - U 0 -4178 Q - P 456 -296 U - T 0 -3597

Additional Notes	Maximum Web Forces Per Ply (lbs)
See DWG CNSY42PL0118 for connection details of 2 ply trusses. + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. Truss must be installed as shown with top chord up.	Webs Tens.Comp. Webs Tens. Comp. A - Y 0 -789 G - S 577 0 Y - C 1366 0 S - H 0 -1230 C - W 0 -5021 H - R 961 0 W - E 0 -1030 R - L 0 -716 E - V 677 0 L - Q 599 0 V - F 0 -1093 Q - N 264 -439 F - U 694 0 N - P 330 -495 U - G 0 -980



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SEQN: 11834 / FROM:	SY42 Ply: 1 Qty: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L11	Cust: R 9316 JRef:1XdX93160006 T29 / DrwNo: 076.22.1319.17003 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF					
				Gravity			Non-Gravity		
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.000 T 999 480	AN 68	/-	/-	/-	/-	/-
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.001 T 999 360	AN*97	/-	/-	/-	/-	/-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.003 B - -	U 64	/-	/-	/-	/-	/-
Des Ld: 75.00	EXP: NA Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	HORZ(TL): 0.005 B - -	AN Brg Wid = 4.1 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: NA ft		Creep Factor: 2.0	AN Brg Wid = 281 Min Req = -					
Soffit: 0.00	TCDL: NA psf		Max TC CSI: 0.060	U Brg Wid = 2.1 Min Req = 1.5 (Truss)					
Load Duration: 1.00	BCDL: NA psf		Max BC CSI: 0.013	Bearings AN, AN, & U are a rigid surface.					
Spacing: 16.0 "	MWFRS Parallel Dist: NA		Max Web CSI: 0.018	Members not listed have forces less than 375#					
	C&C Dist a: NA ft		VIEW Ver: 21.02.00.1005.17						
	Loc. from endwall: NA								
	I: NA GCpi: NA								
	Wind Duration: NA								

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

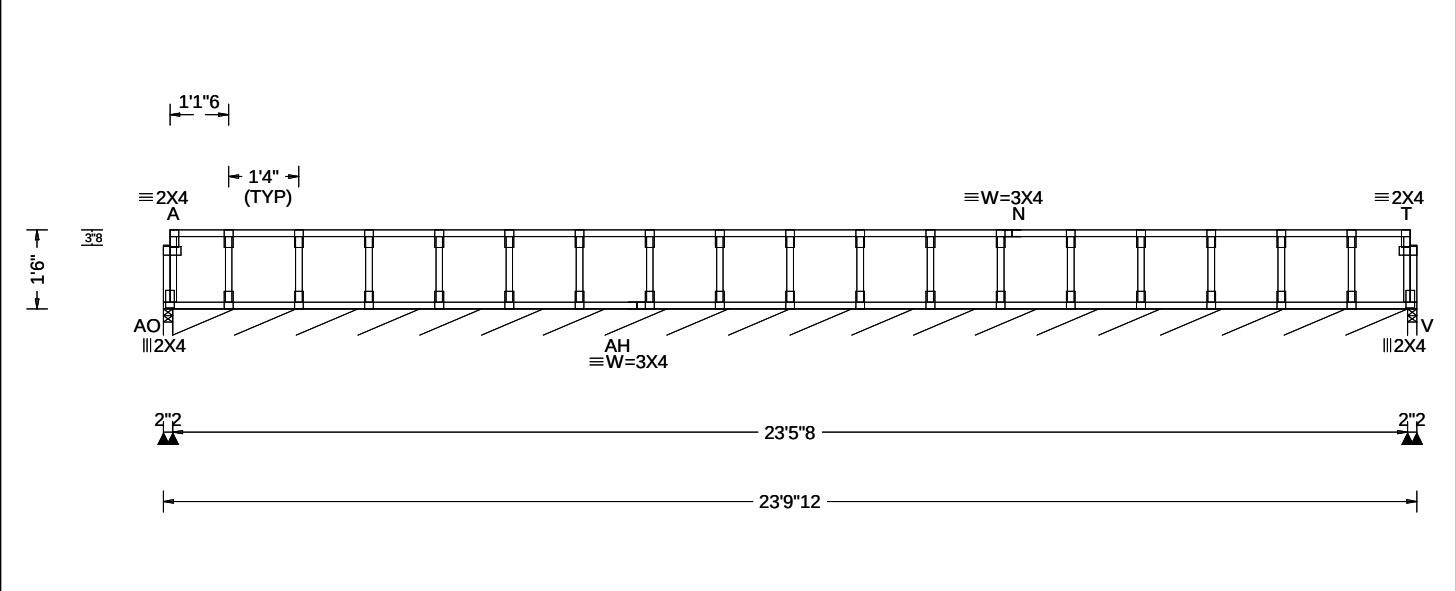


03/17/2022

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Building 8

SEQN: 11836 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220687 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L21	Cust: R 9316 JRef:1XdX93160006 T30 / DrwNo: 076.22.1319.17150 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.000 T 999 360 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.009 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL AO 48 -/-/-/-/- AO*97 -/-/-/-/- V 48 -/-/-/-/- AO Brg Wid = 2.1 Min Req = 1.5 (Truss) AO Brg Wid = 281 Min Req = - V Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AO, AO, & V are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.
Provide for complete drainage of roof.
Truss must be installed as shown with top chord up.



03/17/2022

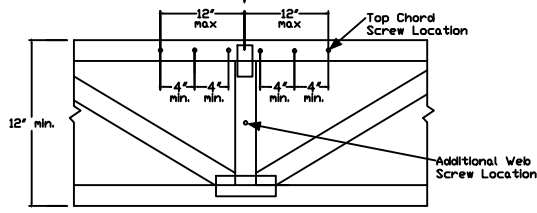
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System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

Max. Concentrated Load per Chart Below

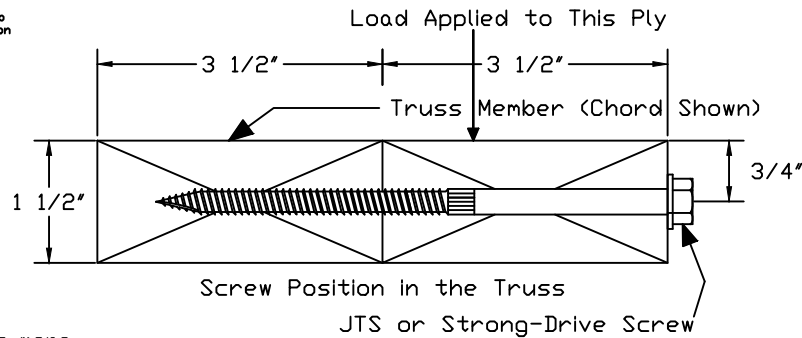


Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

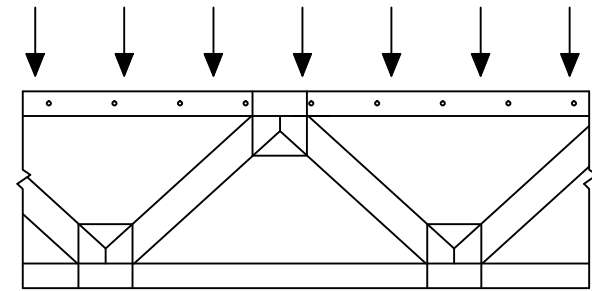
For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

Refer to Alpine sealed drawing for individual truss design.



Max. Uniform Load per Chart Below



For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200



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For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org

TC LL	PSF	REF	SY42 Connection
TC DL	PSF	DATE	01/19/2018
BC DL	PSF	DRWG	CNSY42PL0118
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



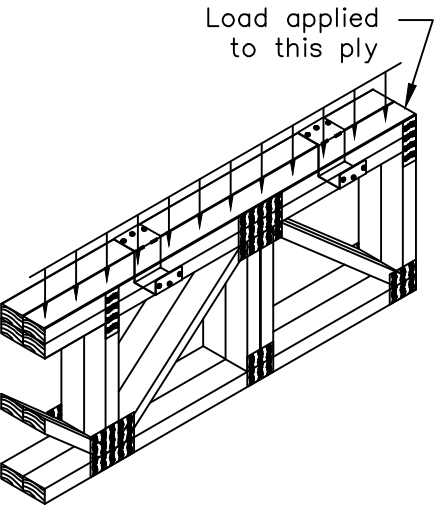
WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.
A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

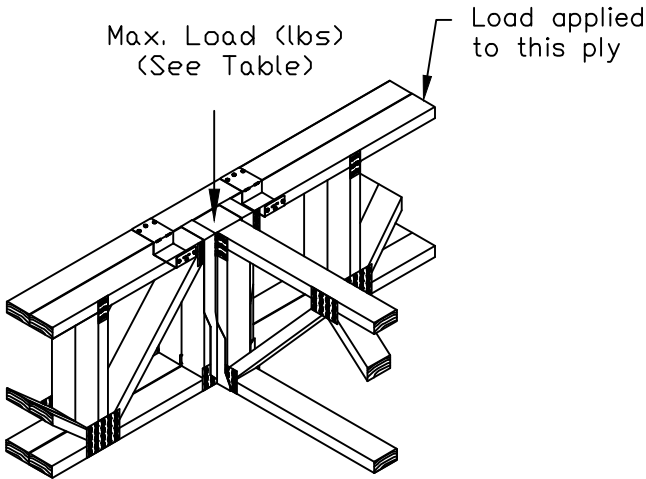
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application

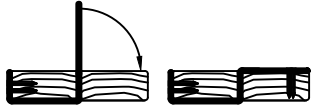


Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

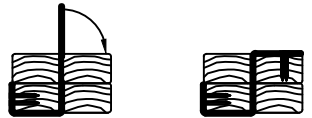
Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.
2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

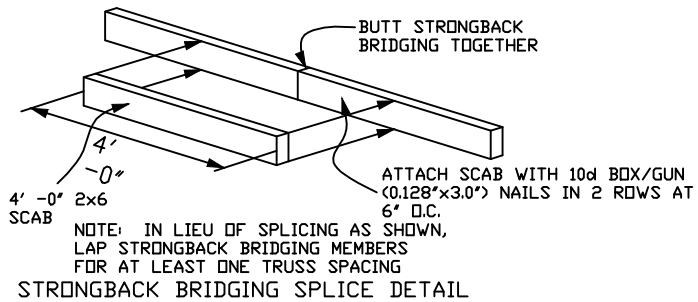


WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING
IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.
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For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

DUR. FAC. ALL

REF SY42 Connection
DATE 10/01/14
DRWG LSCSYX2A1014

STRONGBACK BRIDGING RECOMMENDATIONS

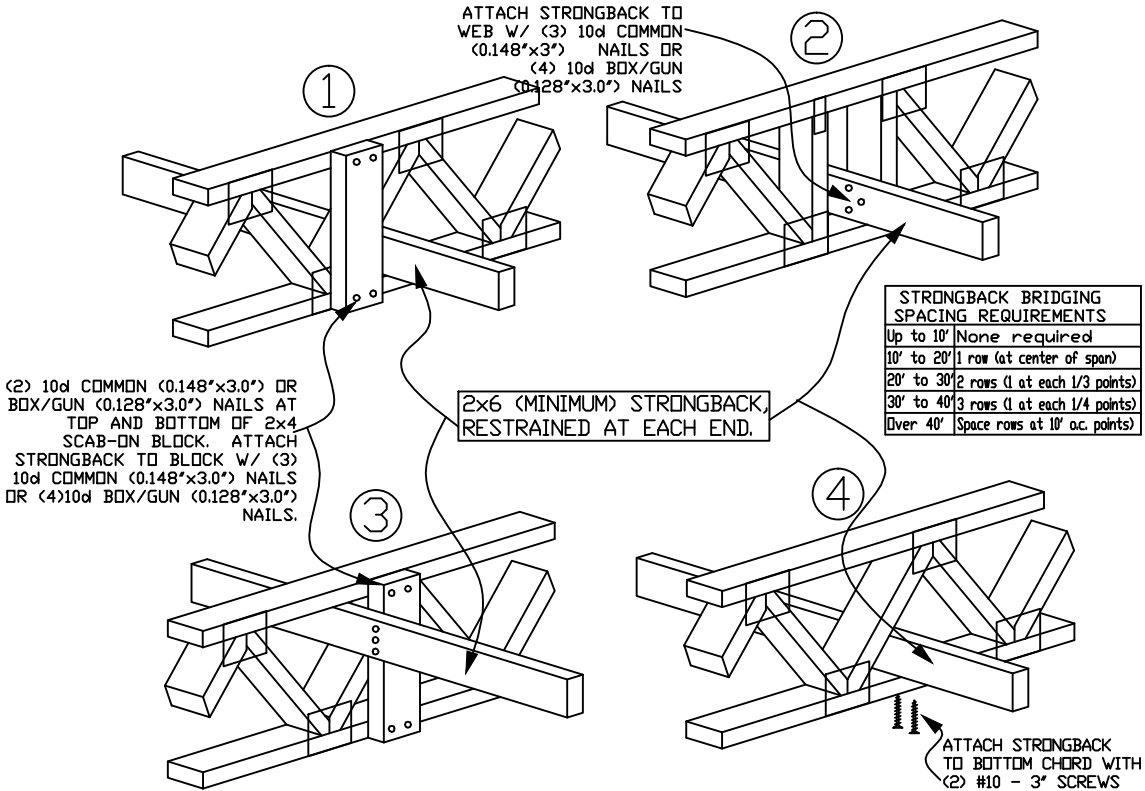


- ▶ All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- ▶ All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- ▶ The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- ▶ The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES



*****WARNING*** READ AND FOLLOW ALL NOTES ON THIS DRAWING**
*****IMPORTANT*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.
A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			



Structural Engineers – Since 1957

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

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Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Foundation Rebar Shop Drawings	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 8 Roof Layout

Total Truss Quantity = 349.

Total Plan Area with OHs = 4539 sq.ft

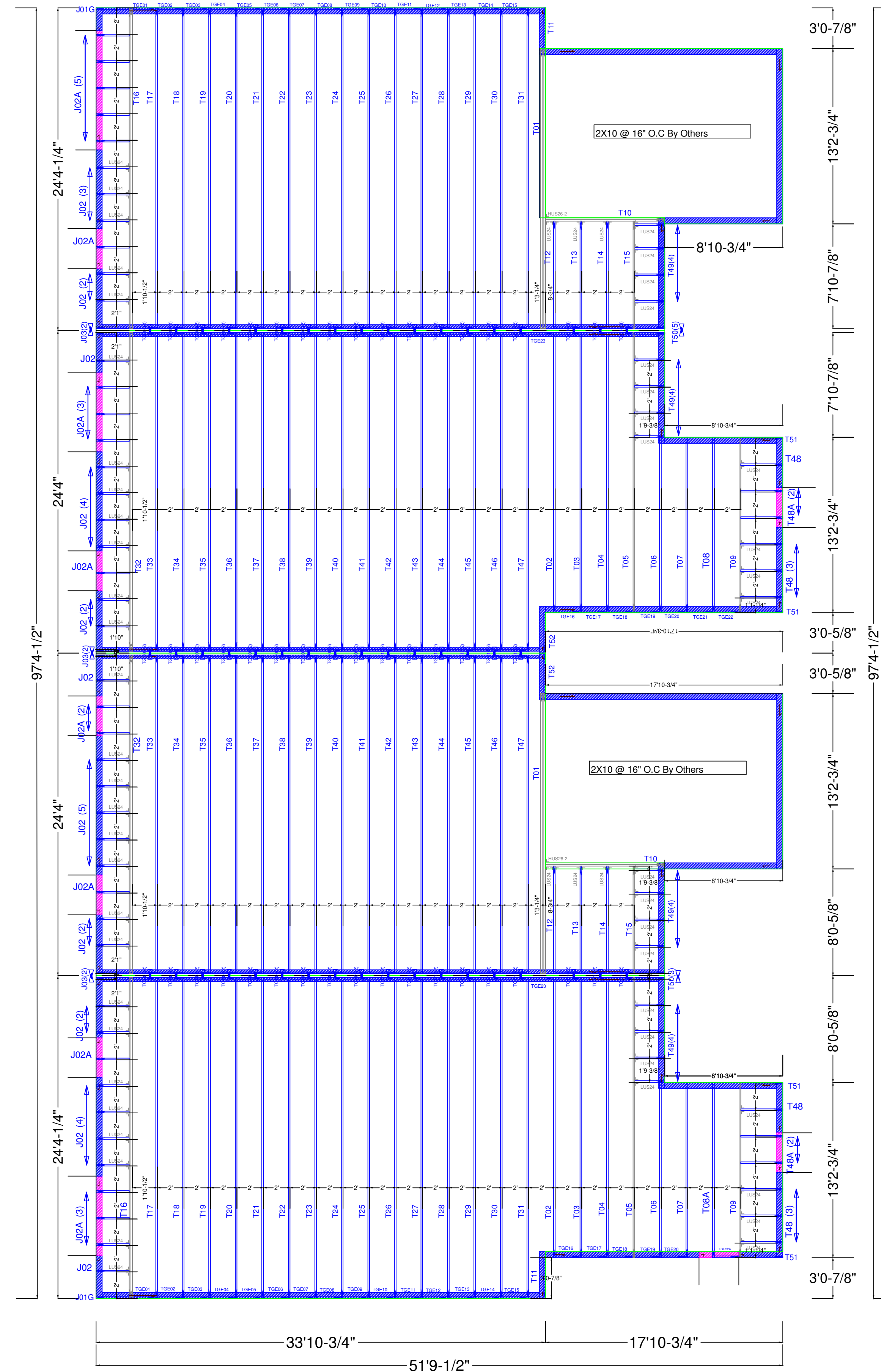
HANGER CHART

Symbol	Name	Qty	Manufacturer
	= HUS26-2	2	Simpson
	= LUS24	78	Simpson

BEARING WALL & BEAM HEIGHTS	
1	10'0"
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97	10'0"
98	10'0"
99	10'0"
100	10'0"

19'8"

19'9-3/4"



SHOP DRAWING REVIEW	
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS	
☐	APPROVED
☐	FURNISH AS CORRECTED
☐	REJECTED, REVISE & RESUBMIT
☐	RETURNED NOT REVIEWED
☒	REVIEWED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY	
Bob D. Campbell & Co., Inc.	
STRUCTURAL ENGINEERS	
DATE	05/10/2022 BY CB

REVIEWED ☒

DATE RECIEVED:

REVIEWED AS NOTED ☐

DATE REVIEWED: 5/23/2022

REVISION AND RESUBMIT ☐

REVIEWED BY: michaela.silva

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



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Job Name:

McCambridge Brothers Construction

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Date: 4/29/2022

Designer: Juan R Quirce

Reference #: JB-220688



NOTE: Yellow ID Tag Location Indicates
Left/Front/Bottom of Truss

DO NOT Erect Backwards/UpSide Down or Cut, Alter, Installed Trusses



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/19/2022

SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/10/2022 BY: CB

REVIEWED ☒ DATE RECEIVED: 5/23/2022
REVIEWED AS NOTED ☐
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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

TRI
ARCHITECTS

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St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220688
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00 JRef #: 1Xf493160006
Wind Standard: ASCE 7-16 Wind Speed (mph): 109	Design Loading (psf): 60.00
Building Type: Closed	

This package contains general notes pages, 82 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	119.22.1313.47030	J01G	2	119.22.1313.48590	J02
3	119.22.1313.51260	J03	4	119.22.1313.52920	T01
5	119.22.1313.54597	T02	6	119.22.1313.56303	T03
7	119.22.1313.58157	T04	8	119.22.1313.59860	T05
9	119.22.1314.01430	T06	10	119.22.1314.02903	T07
11	119.22.1314.04320	T08	12	119.22.1314.08717	T10
13	119.22.1314.10050	T11	14	119.22.1314.11437	T12
15	119.22.1314.12840	T13	16	119.22.1314.14193	T14
17	119.22.1314.15803	T15	18	119.22.1314.19233	T17
19	119.22.1314.20977	T18	20	119.22.1314.22733	T19
21	119.22.1314.24487	T20	22	119.22.1314.26127	T21
23	119.22.1314.27763	T22	24	119.22.1314.29380	T23
25	119.22.1314.31003	T24	26	119.22.1314.32617	T25
27	119.22.1314.37510	T26	28	119.22.1314.39170	T27
29	119.22.1314.40810	T28	30	119.22.1314.42410	T29
31	119.22.1314.44043	T30	32	119.22.1314.45777	T31
33	119.22.1314.49357	T33	34	119.22.1314.50930	T34
35	119.22.1314.52577	T35	36	119.22.1314.56073	T36
37	119.22.1314.57703	T37	38	119.22.1314.59340	T38
39	119.22.1315.01013	T39	40	119.22.1315.02670	T40
41	119.22.1315.04263	T41	42	119.22.1315.05910	T42
43	119.22.1315.07633	T43	44	119.22.1315.09613	T44
45	119.22.1315.11443	T45	46	119.22.1315.13107	T46
47	119.22.1315.14703	T47	48	119.22.1315.16207	T48
49	119.22.1315.18983	T49	50	119.22.1315.20490	T50



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

04/29/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	Job Number: JB-220688
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	119.22.1315.21903	T51
53	119.22.1303.39035	TGE01
55	119.22.1303.39008	TGE03
57	119.22.1303.38288	TGE05
59	119.22.1303.38498	TGE07
61	119.22.1303.38548	TGE09
63	119.22.1303.38831	TGE11
65	119.22.1303.38382	TGE13
67	119.22.1303.38790	TGE15
69	119.22.1303.38031	TGE17
71	119.22.1315.24817	TGE19
73	119.22.1315.27633	TGE21
75	119.22.1303.38644	TGE23
77	119.22.1314.47673	T32
79	119.22.1313.49987	J02A
81	119.22.1314.05753	T08A
83	A11530ENC160118	
85	DEFLCAMB1014	
87	GBLLETIN0118	

Item	Drawing Number	Truss
52	119.22.1315.23363	T52
54	119.22.1303.38673	TGE02
56	119.22.1303.38970	TGE04
58	119.22.1303.37957	TGE06
60	119.22.1303.38480	TGE08
62	119.22.1303.38610	TGE10
64	119.22.1303.38286	TGE12
66	119.22.1303.38037	TGE14
68	119.22.1303.37949	TGE16
70	119.22.1303.37969	TGE18
72	119.22.1315.26260	TGE20
74	119.22.1315.29143	TGE22
76	119.22.1314.17493	T16
78	119.22.1314.07263	T09
80	119.22.1315.33037	TGE22A
82	119.22.1315.17613	T48A
84	BRCLBSUB0119	
86	GABRST160118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

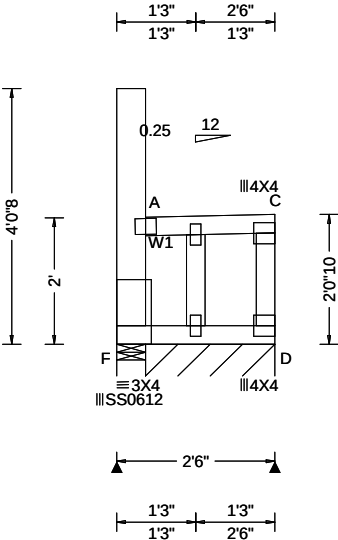
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 8

SEQN: 34813 FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J01G	Cust: R 9316 JRef:1X1493160006 T208 DrwNo: 119.22.1313.47030 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.005 A 999 360	F	42	/-	/-	/119	/146	/99
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.007 A 999 240	D*	124	/-	/-	/120	/58	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.092 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.105 A - -	F	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 21.70 ft	Building Code:	Creep Factor: 2.0	D	Brg Wid = 24.5 Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.129	Bearings F & F are a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.373	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.164							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	18SS, WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

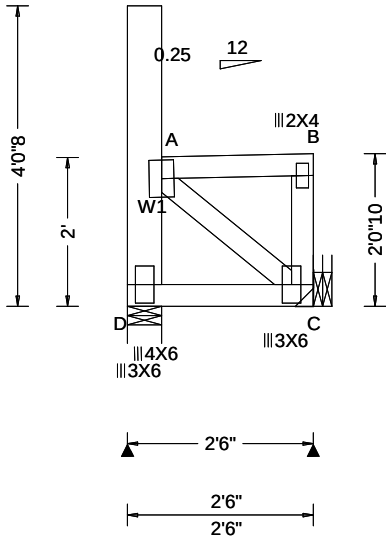
Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.
Truss must be installed as shown with top chord up.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025	
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SEQN: 34944 FROM:	MONO Ply: 1 Qty: 27	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02	Cust: R 9316 JRef:1Xf493160006 T218 DrwNo: 119.22.1313.48590 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	134	/-	/-	/101	/80	/91
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	160	/-	/-	/145	/64	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	D	Brg Wid = 5.5		Min Req = 1.5 (Truss)			
NCBCLL: 0.00	Mean Height: 21.70 ft		Creep Factor: 2.0	C	Brg Wid = -		Min Req = -			
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.103	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf		Max BC CSI: 0.066	Members not listed have forces less than 375#						
	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.131	Maximum Web Forces Per Ply (lbs)						
	C&C Dist a: 3.00 ft			Webs	Tens.Comp.					
Spacing: 24.0 "	Loc. from endwall: Any			A - C	240	-390				
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

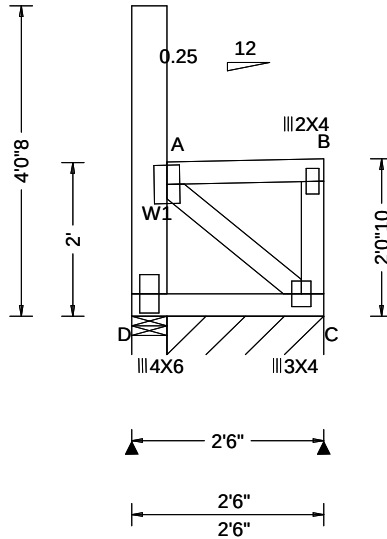
Truss must be installed as shown with top chord up.



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SEQN: 34815	MONO	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T135
FROM:		Qty: 6	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1313.51260
			Truss Label: J03	/ BAF 04/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or ▲=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - -	Gravity Loc R+ / R- / Rh Non-Gravity Loc R+ / U / RL D 134 /- /- /110 /86 /99 C* 79 /- /- /72 /34 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = 24.5 Min Req = - Bearings D & D are a rigid surface. Members not listed have forces less than 375#
Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Creep Factor: 2.0 Max TC CSI: 0.103 Max BC CSI: 0.066 Max Web CSI: 0.106	
			VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

All plates are 3X6 except as noted.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	2.03	30.67
					2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



04/29/2022

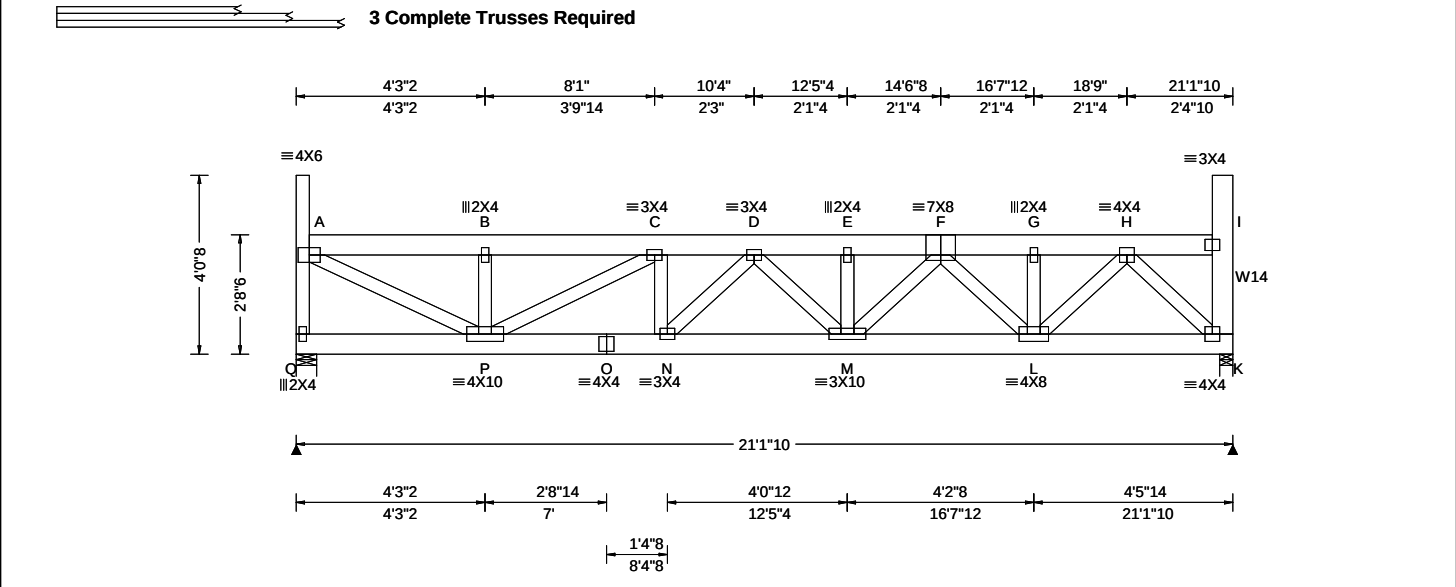
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBCA: sbacocomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 34890 FROM:	FLAT Ply: 3 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T01	Cust: R 9316 JRef:1Xf493160006 T2 DrwNo: 119.22.1313.52920 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity						
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00							
	BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	VERT(LL): 0.060 D	999	360				
	Des Ld: 60.00	EXP: B Kzt: NA		VERT(CL): 0.102 D	999	240				
	NCBCLL: 0.00	Mean Height: 22.37 ft		HORZ(LL): 0.014 K	-	-				
	Soffit: 2.00	TCDL: 5.0 psf		HORZ(TL): 0.024 K	-	-				
	Load Duration: 1.15	BCDL: 3.0 psf		Creep Factor: 2.0						
	Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Building Code:	Max TC CSI: 0.049						
	C&C Dist a: 3.00 ft	IBC 2018	Max BC CSI: 0.262							
	Loc. from endwall: Any	TPI Std: 2014	Max Web CSI: 0.269							
	GCpi: 0.18	Rep Fac: Yes								
	Wind Duration: 1.60	FT/RT:20(0)/10(0)								
		Plate Type(s):								
		WAVE	VIEW Ver: 21.02.00.1005.17							
			</							

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 50 plf at 0.00 to 50 plf at 21.14
BC: 1489 lb Conc. Load at 12.90

Additional Notes
Truss must be installed as shown with top chord up.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 20.39 1.34 13.80 3.32
20.68 0.00 20.39 1.34 13.80 3.32
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.



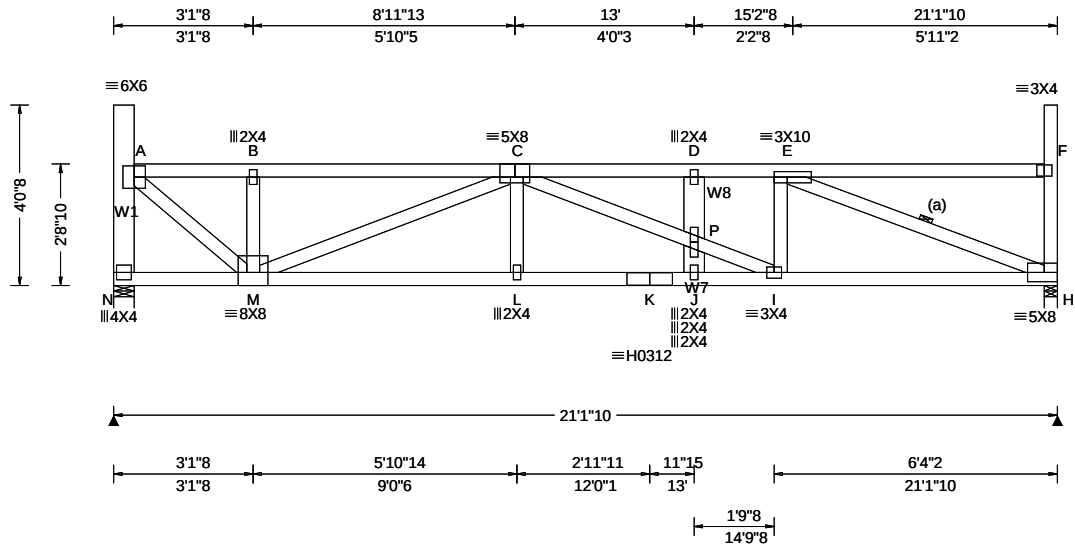
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34816	FLAT	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T165
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1313.54597
			Truss Label: T02	/ BAF 04/29/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)								
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in loc L/defl L/#	VERT(LL): 0.155 D 999 360		Gravity			Non-Gravity					
TCDL: 15.00	Speed: 109 mph	Pf: 15.4	Ce: 1.0		VERT(CL): 0.266 D 953 240	HORZ(LL): 0.046 H - -		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL		
BCLL: 15.00	Enclosure: Closed	Lu: -	Cs: 1.00		HORZ(TL): 0.079 H - -	Creep Factor: 2.0		N	1234	/-	/-	/534	/77	/121		
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15			Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS		Max TC CSI: 0.427		H	1246	/-	/-	/539	/79	/-	
Des Ld: 60.00	EXP: B Kzt: NA						Max BC CSI: 0.928		Wind reactions based on MWFRS							
NCBCLL: 0.00	Mean Height: 22.39 ft						Max Web CSI: 0.991		N Brg Wid = 5.5 Min Req = 1.9 (Truss)							
Soffit: 2.00	TCDL: 5.0 psf						H Brg Wid = 3.5 Min Req = 2.0 (Truss)									
Load Duration: 1.15	BCDL: 3.0 psf						Bearings N & H are a rigid surface.									
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h						Members not listed have forces less than 375#									
	C&C Dist a: 3.00 ft						Maximum Top Chord Forces Per Ply (lbs)									
	Loc. from endwall: Any						Chords		Tens.Comp.		Chords		Tens. Comp.			
	GCpi: 0.18						A - B		137 - 1501		C - D		147 - 2445			
	Wind Duration: 1.60				VIEW Ver: 21.02.00.1005.17		D - C		137 - 1400		E - F		147 - 2445			

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

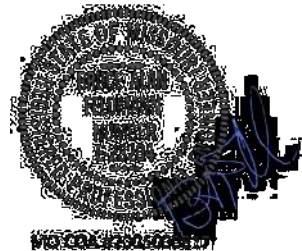
Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



04/29/2022

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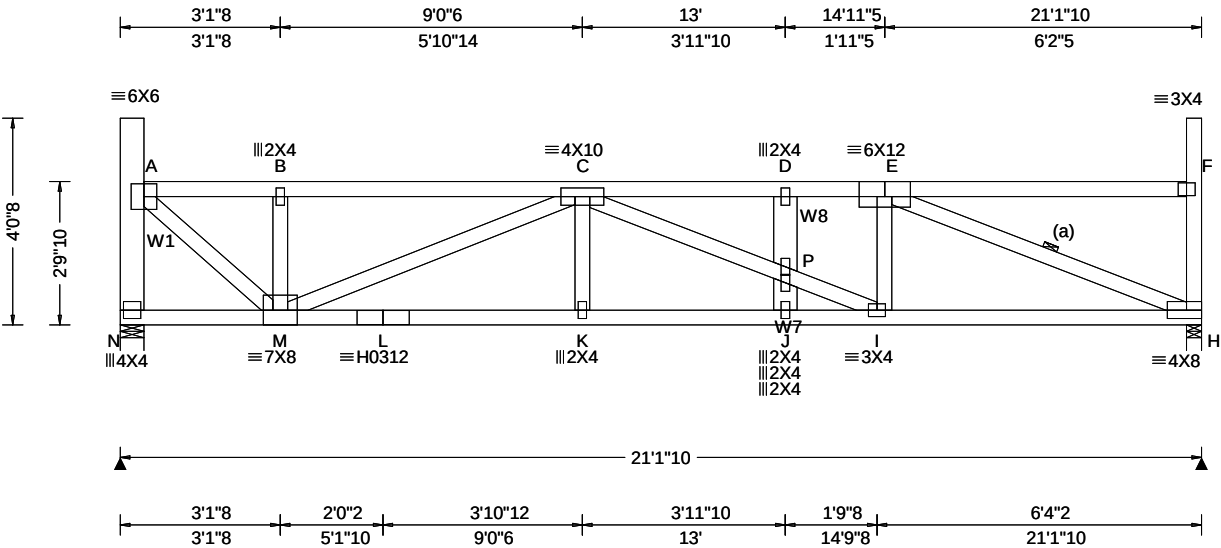
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34818 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T04	Cust: R 9316 JRef:1X1493160006 T134 DrwNo: 119.22.1313.58157 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.147 D 999 360 VERT(CL): 0.242 D 999 240 HORZ(LL): 0.045 H - - HORZ(TL): 0.076 H - - Creep Factor: 2.0 Max TC CSI: 0.438 Max BC CSI: 0.913 Max Web CSI: 0.979 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1236 - / - / 534 / 78 / 119 H 1248 - / - / 539 / 80 - / - Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 1.9 (Truss) H Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 132 - 1454 C - D 168 - 2365 B - C 132 - 1450 D - E 168 - 2365

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

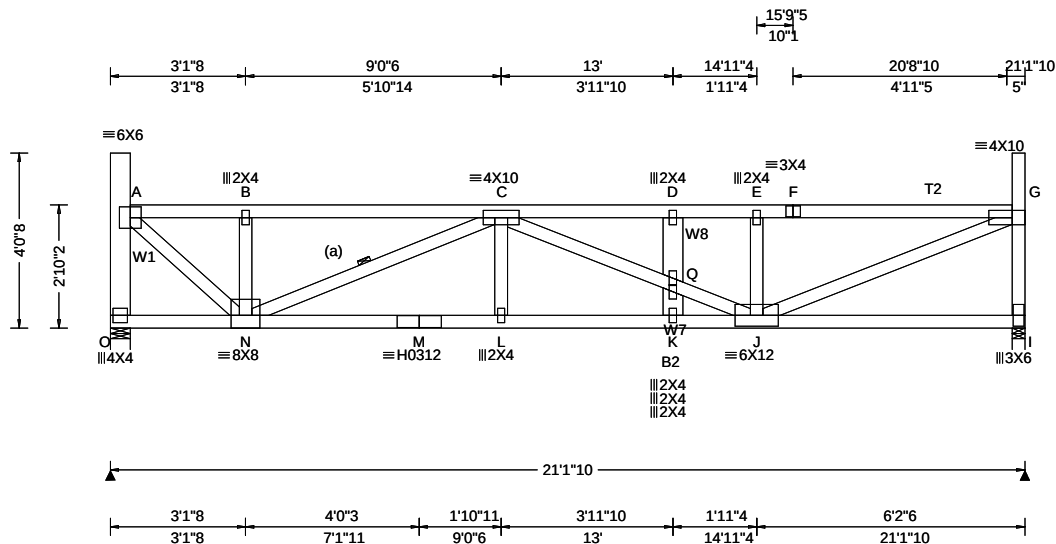
Additional Notes

Truss must be installed as shown with top chord up.



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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.156 D 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.268 D 944 240	O 1326 /- /- /- /121 /-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.036 A - -	I 1494 /- /- /- /241 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.061 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.51 ft	Building Code:	Creep Factor: 2.0	O Brg Wid = 5.5 Min Req = 2.1 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.608	I Brg Wid = 3.5 Min Req = 1.9 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.958	Bearings O & I are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.717	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE HS	VIEW Ver: 21.02.00.1005.17	A - B 143 -1537 D - E 437 -2809

Lumber

Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC:	From	70 plf at	0.46 to	70 plf at	20.84
BC:	From	50 plf at	0.00 to	50 plf at	13.29
BC:	From	25 plf at	13.29 to	25 plf at	21.14
BC:	133 lb Conc. Load at	13.29, 15.07, 17.07, 19.07			

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.20	8.97	2.16
20.84	0.00	20.39	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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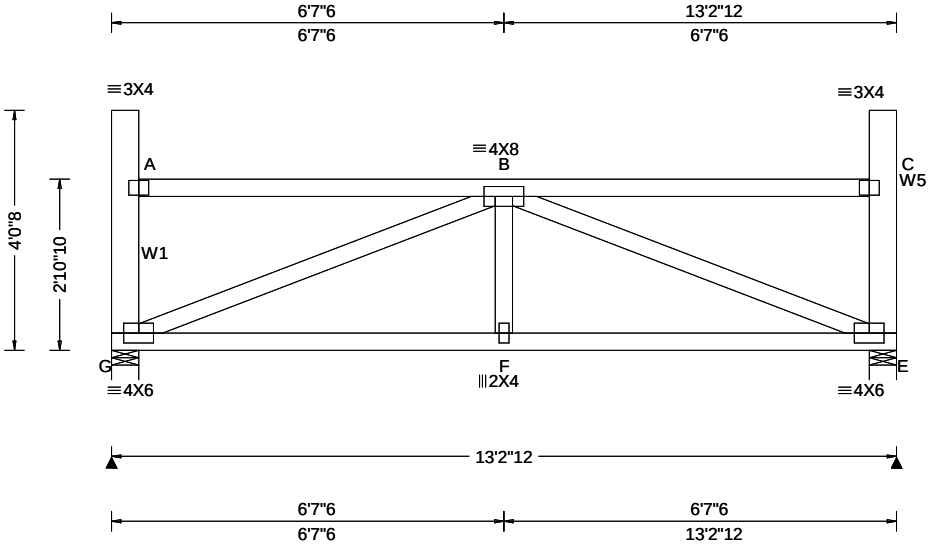
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34819 FROM:	SPEC Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T06	Cust: R 9316 JRef:1Xf493160006 T149 DrwNo: 119.22.1314.01430 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.55 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.043 F 999 360 VERT(CL): 0.074 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.026 E - - Creep Factor: 2.0 Max TC CSI: 0.550 Max BC CSI: 0.642 Max Web CSI: 0.986 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 762 /- /- /341 /59 /116 E 762 /- /- /341 /59 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1210 -166 F - E 1210 -166

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.59 1.83
12.77 0.00 20.00 1.16 7.59 1.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

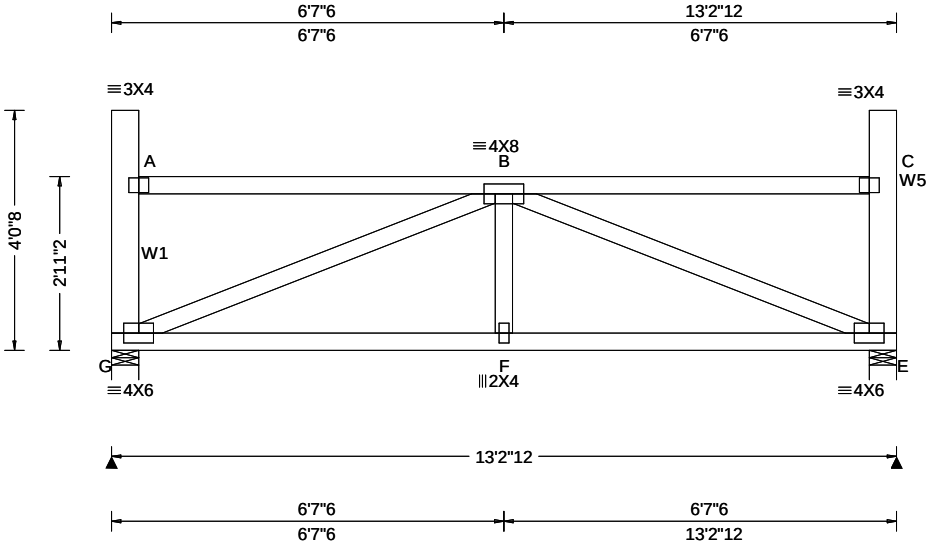
Additional Notes
Truss must be installed as shown with top chord up.



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SEQN: 34820 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T07	Cust: R 9316 JRef:1Xf493160006 T146 DrwNo: 119.22.1314.02903 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.042 F 999 360 VERT(CL): 0.072 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.026 E - - Creep Factor: 2.0 Max TC CSI: 0.551 Max BC CSI: 0.639 Max Web CSI: 0.977 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 762 /- /- /341 /59 /115 E 762 /- /- /341 /59 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1191 -164 F - E 1191 -164

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.11 6.20 1.50
12.77 0.00 20.00 1.11 6.20 1.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

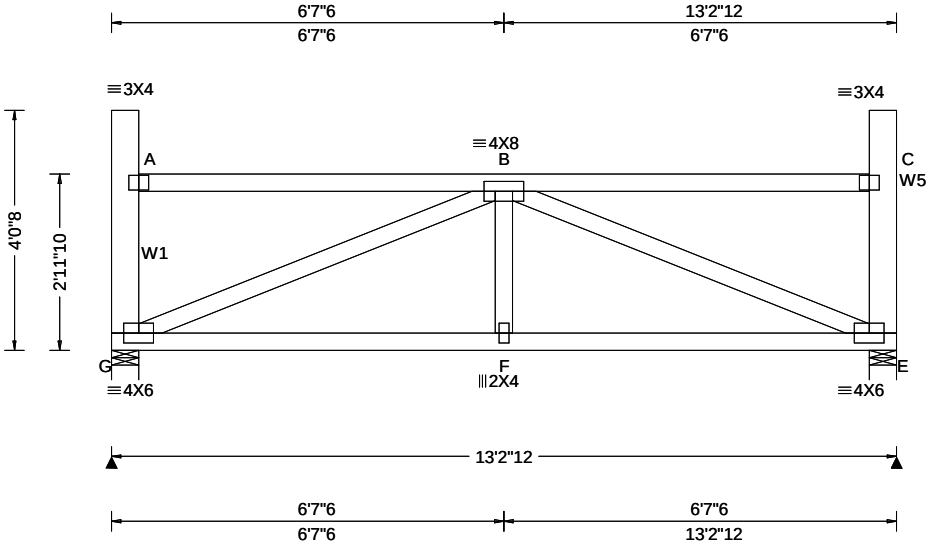
Additional Notes

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SEQN: 34938 FROM:	FLAT Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08	Cust: R 9316 JRef:1Xf493160006 T150 DrwNo: 119.22.1314.04320 / BAF 04/29/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
TCLL: 20.00		Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity		
TCDL: 15.00		Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.041 F 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
BCLL: 15.00		Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.070 F 999 240	G 762	/-	/-		/341 /59	/114
BCDL: 10.00		Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.015 E - -	E 762	/-	/-		/341 /59	/-
Des Ld: 60.00		EXP: B Kzt: NA		HORZ(TL): 0.025 E - -	Wind reactions based on MWFRS					
NCBCLL: 0.00		Mean Height: 22.64 ft	Building Code:	Creep Factor: 2.0	G	Brg Wid = 5.5	Min Req = 1.5	(Truss)		
Soffit: 2.00		TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.551	E	Brg Wid = 5.5	Min Req = 1.5	(Truss)		
Load Duration: 1.15		BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.636	Bearings G & E are a rigid surface.					
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.969	Members not listed have forces less than 375#					
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Bot Chord Forces Per Ply (lbs)					
		Loc. from endwall: Any	Plate Type(s):		Chords	Tens.Comp.	Chords	Tens. Comp.		
		GCpi: 0.18			G - F	1173 -162	F - E	1173 -162		
		Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

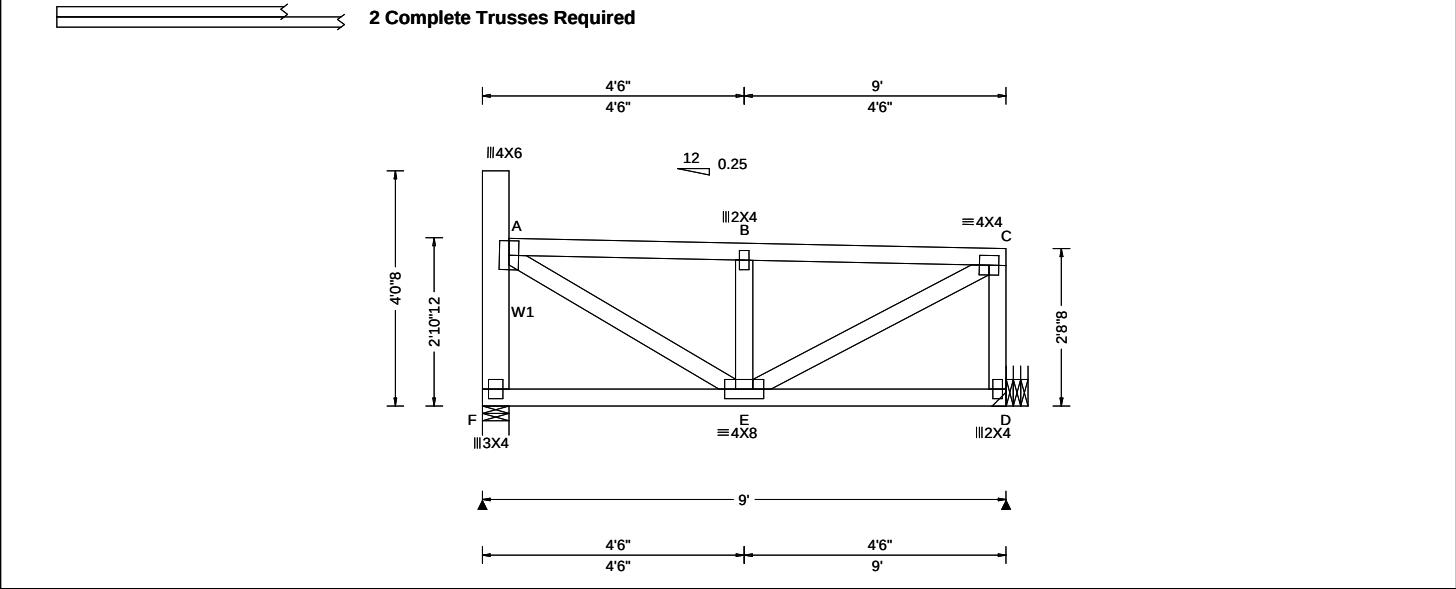
Additional Notes
Truss must be installed as shown with top chord up.



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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34889 FROM:	MONO Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T10	Cust: R 9316 JRef:1X1493160006 T1 DrwNo: 119.22.1314.08717 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.015 B 999 360	F	1266	/-	/-	/-	/182	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.026 B 999 240	D	1489	/-	/-	/-	/155	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.004 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.006 A - -	F Brg Wid = 5.5 Min Req = 1.5 (Truss)						
	Creep Factor: 2.0		D Brg Wid = - Min Req = -							
NCBCLL: 0.00	Mean Height: 22.46 ft	IBC 2018	Max TC CSI: 0.129	Bearing F is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.426	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	Rep Fac: Varies by Ld Case	Max Web CSI: 0.218	Maximum Top Chord Forces Per Ply (lbs)						
	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)	VIEW Ver: 21.02.00.1005.17	Chords	Tens.Comp.	Chords	Tens. Comp.			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Plate Type(s):		A - B	99	-795	B - C	99	-796	
	Loc. from endwall: not in 29.00 ft	WAVE								
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber	Additional Notes	Maximum Web Forces Per Ply (lbs)
Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Truss must be installed as shown with top chord up.	Webs Tens.Comp. Webs Tens. Comp.
		F - A 53 -455 E - C 887 -111
		A - E 841 -101 C - D 57 -472

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 50 plf at 0.00 to 50 plf at 2.33
BC: From 25 plf at 2.33 to 25 plf at 9.00
BC: 713 lb Conc. Load at 2.33
BC: 487 lb Conc. Load at 4.33, 6.33, 8.33

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.84
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

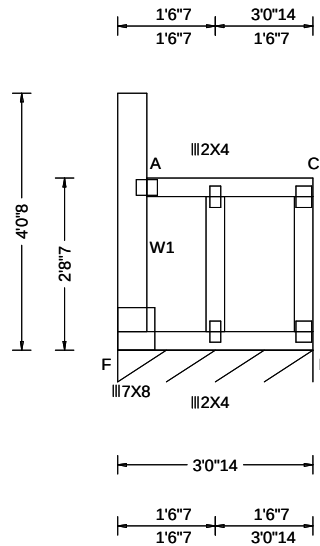
Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.



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SEQN: 34822	GABL	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T187
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1314.10050
			Truss Label: T11	/ BAF 04/29/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or * = PLF						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in	loc L/def L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL):	0.007 A 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL):	0.009 A 999 240	D*	110	/-	/-	/46	/5	/30
BCDL:	10.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL):	0.117 A - -	Wind reactions based on MWFRS						
Des Ld:	60.00	EXP:	B Kzt: NA	Building Code: IBC 2018		HORZ(TL):	0.136 A - -	D Brg Wid = 36.9 Min Req = -						
NCBCLL:	0.00	Mean Height:	22.37 ft			Creep Factor: 2.0								
Soffit:	2.00	TCDL:	5.0 psf	TPI Std: 2014		Max TC CSI:	0.116	Bearing F is a rigid surface. Members not listed have forces less than 375#						
Load Duration:	1.15	BCDL:	3.0 psf	Rep Fac: Yes		Max BC CSI:	0.326							
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2	FT/RT: 20(0)/10(0)		Max Web CSI:	0.142							
		C&C Dist a:	3.00 ft	Plate Type(s):				VIEW Ver: 21.02.00.1005.17						
		Loc. from endwall:	Any											
		GCp:	0.18											
		Wind Duration:	1.60	WAVE										

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Fasten rated sheathing to one face of this frame.

All plates are 3X4 except as noted.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.34	13.63

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

See DWGS A11530ENC160118, GBLLTIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.



04/29/2022

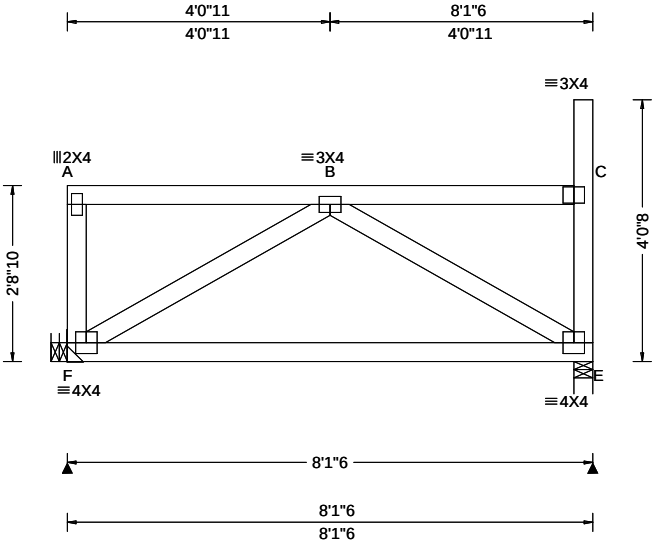
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SEQN: 34823 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T12	Cust: R 9316 JRef:1X1493160006 T110 DrwNo: 119.22.1314.11437 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.005 B 999 360	F	487	/-	/-	/230	/46	/93
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	E	467	/-	/-	/215	/47	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.004 E - -	F	Brg Wid = -			Min Req = -		
NCBCLL: 0.00	Mean Height: 22.39 ft	Building Code:	Creep Factor: 2.0	E	Brg Wid = 3.5			Min Req = 1.5 (Truss)		
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.216	Bearing E is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.818	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.203							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.32 13.12 3.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



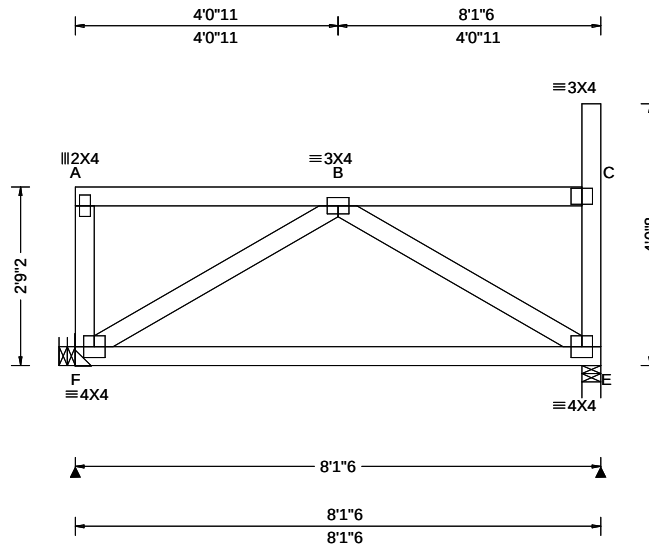
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34824	FLAT	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T229
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1314.12840
			Truss Label: T13	/ BAF 04/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.005 B 999 360	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	F 487 /- /- /229 /46 /92
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	E 467 /- /- /215 /47 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.004 E - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.43 ft	Building Code:	Creep Factor: 2.0	F Brg Wid = - Min Req = -
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.216	E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.817	Bearing E is a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.203	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Drifting snow load has been considered for only in plane loading as follows:

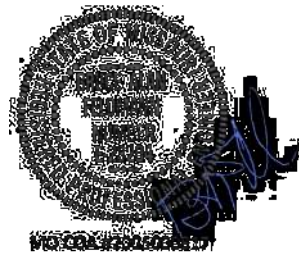
Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



04/29/2022

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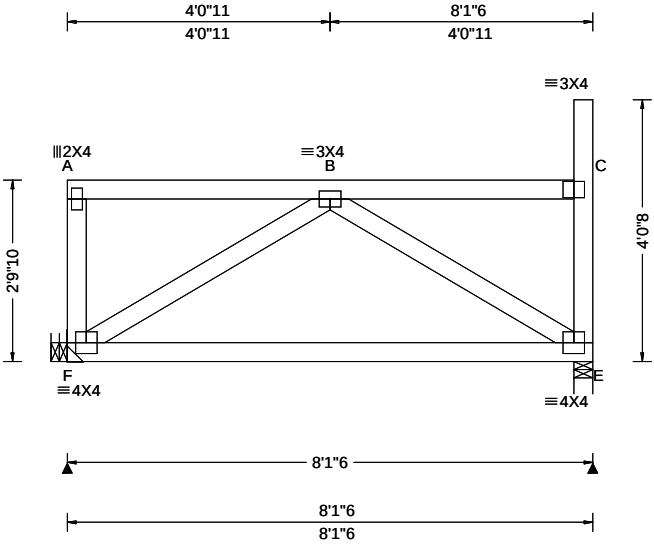
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34825 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T14	Cust: R 9316 JRef:1X1493160006 T206 DrwNo: 119.22.1314.14193 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.005 B 999 360	F	487	/-	/-	/229	/46	/92
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	E	467	/-	/-	/215	/47	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.004 E - -	F Brg Wid = - Min Req = -						
	Creep Factor: 2.0		E Brg Wid = 3.5 Min Req = 1.5 (Truss)							
NCBCLL: 0.00	Mean Height: 22.47 ft	IBC 2018	Max TC CSI: 0.217	Bearing E is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.815	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	Rep Fac: Yes	Max Web CSI: 0.203							
	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)								
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Plate Type(s):								
	Loc. from endwall: Any	WAVE	VIEW Ver: 21.02.00.1005.17							
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



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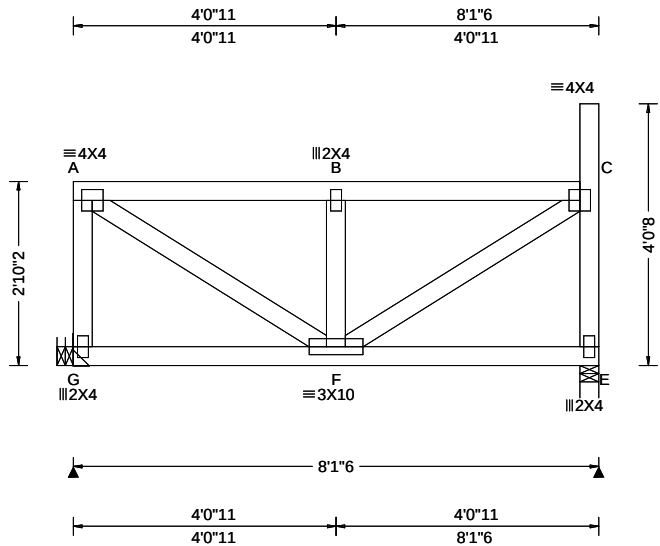
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34886 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T15	Cust: R 9316 JRef:1X1493160006 T212 DrwNo: 119.22.1314.15803 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	G	713	/-	/-	/-	/169	/-
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.012 B 999 360	E	569	/-	/-	/-	/111	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.020 B 999 240	Wind reactions based on MWFRS						
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): -0.002 C - -	G Brg Wid = - Min Req = -						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.004 C - -	E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
NCBCLL: 0.00	Mean Height: 22.51 ft	Building Code:	Creep Factor: 2.0	Bearing E is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.240	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.306	Maximum Top Chord Forces Per Ply (lbs)						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.178	Chords	Tens.Comp.		Chords	Tens. Comp.		
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		A - B	135	-625	B - C	135	-629	
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

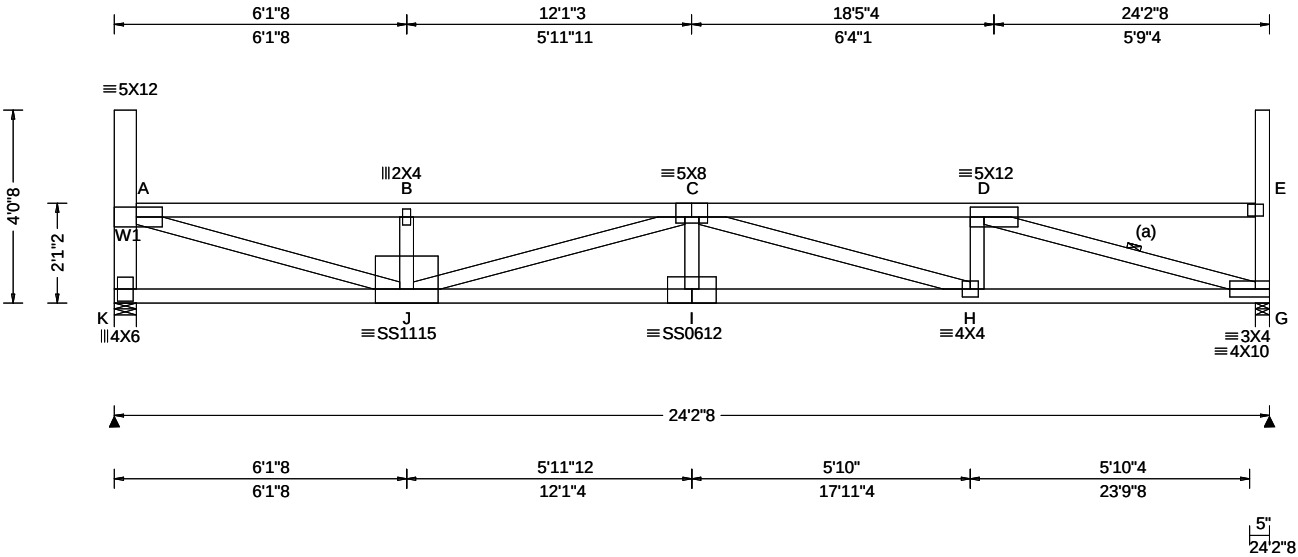
Lumber				Maximum Web Forces Per Ply (lbs)			
Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF #1/#2; Webs: 2x4 SPF #1/#2;				Webs	Tens.Comp.		Tens. Comp.
Special Loads				A - G	89	-502	F - C
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 70 plf at 0.00 to 70 plf at 7.82 BC: From 25 plf at 0.00 to 25 plf at 8.11 BC: 133 lb Conc. Load at 0.27, 2.05, 4.05, 6.05				A - F	725	-156	C - E
Loading							698 -152
Drifting snow load has been considered for only in plane loading as follows:							89 -484
Location Lu1 Lu2 Height Pd W							
7.82 0.00 20.00 1.20 8.97 2.16							
Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.							
Wind							
Wind loads and reactions based on MWFRS.							
End verticals exposed to wind pressure. Deflection meets L/360.							
Additional Notes							
Truss must be installed as shown with top chord up.							



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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34896 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T17	Cust: R 9316 JRef:1X1493160006 T175 DrwNo: 119.22.1314.19233 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity				
	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.397 I 732 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.680 I 427 240	K	1420	/ -	/ -	/ 612	/ 84	/ 139	
	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.062 G - -	G	1432	/ -	/ -	/ 617	/ 86	/ -	
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.107 G - -	Wind reactions based on MWFRS							
NCBCLL: 0.00	Mean Height: 21.76 ft	Building Code:	Creep Factor: 2.0	K Brg Wid = 5.5 Min Req = 1.8 (Truss)							
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.875	G Brg Wid = 3.5 Min Req = 1.8 (Truss)							
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.671	Bearings K & G are a rigid surface.							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.937	Members not listed have forces less than 375#							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: Any	Plate Type(s):		Chords		Tens.Comp.		Chords		Tens. Comp.	
	GCpi: 0.18			A - B	257	- 3857	C - D	254	- 3893		
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	B - C	256	- 3852					

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.28". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



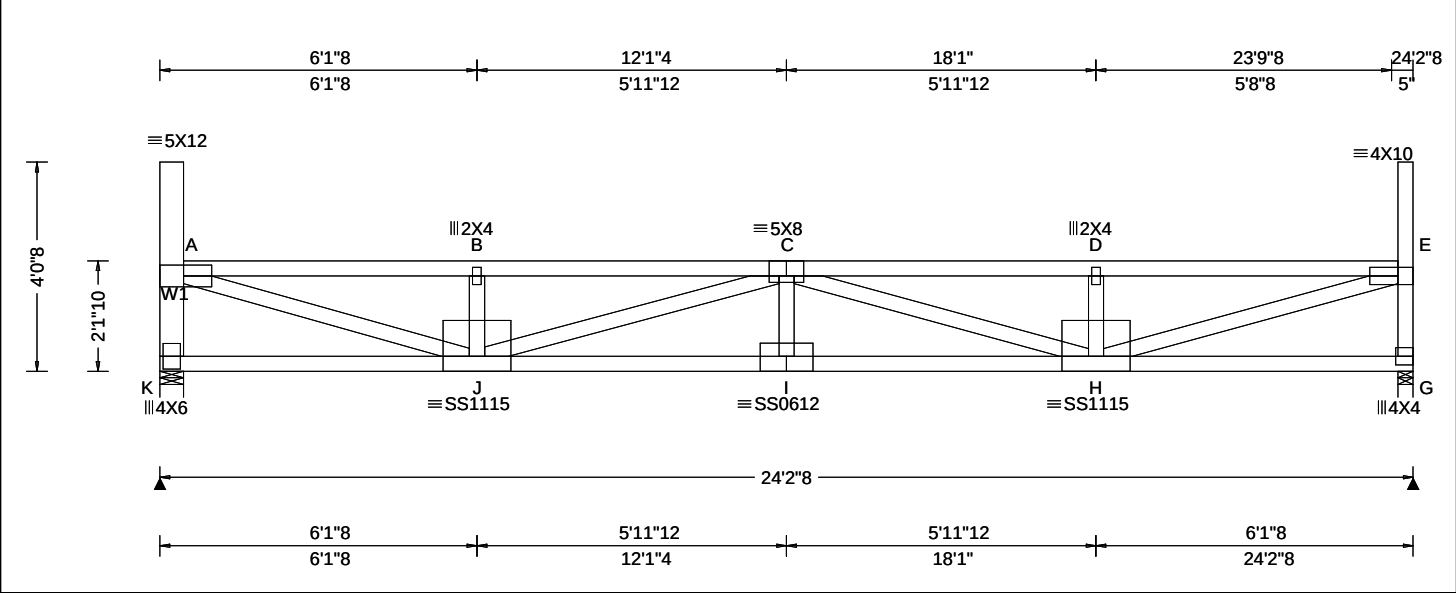
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34827 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T18	Cust: R 9316 JRef:1X1493160006 T180 DrwNo: 119.22.1314.20977 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.390 I 745 360 VERT(CL): 0.668 I 434 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.101 A - - Creep Factor: 2.0 Max TC CSI: 0.873 Max BC CSI: 0.653 Max Web CSI: 0.937 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1421 /- /- /611 /85 /138 G 1432 /- /- /616 /87 /- Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 252 -3773 C - D 252 -3778 B - C 252 -3768 D - E 253 -3784

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.91 32.49 4.38
23.92 0.00 23.46 1.91 32.49 4.38
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.39" DL: 0.28". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

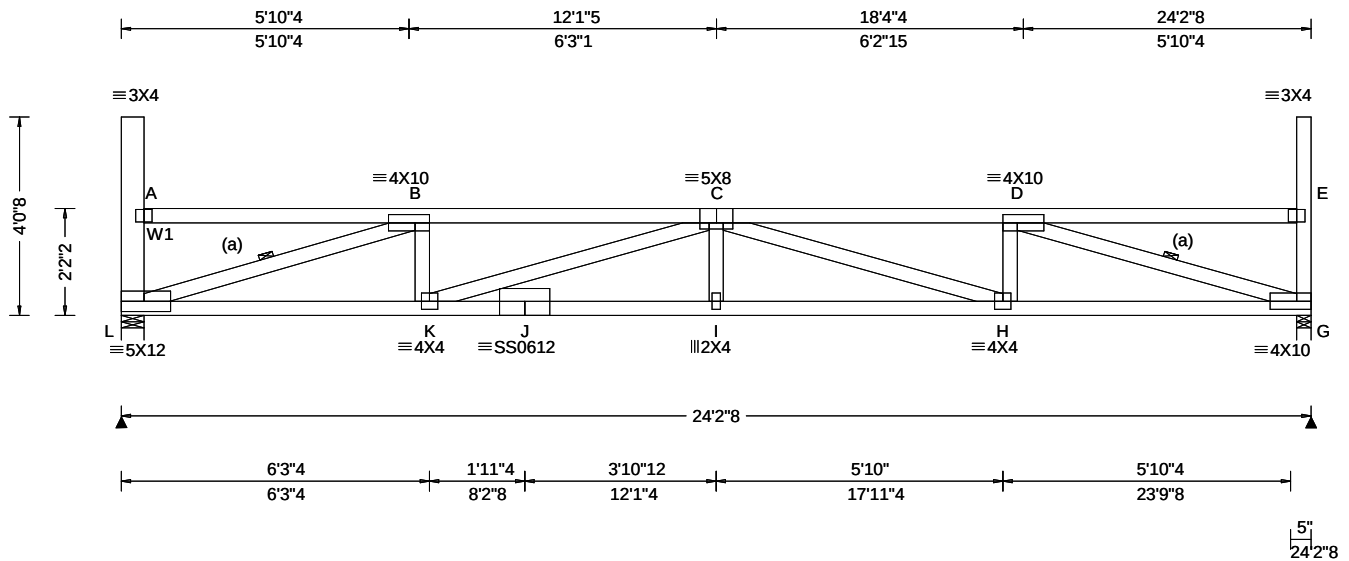
Additional Notes
Truss must be installed as shown with top chord up.



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SEQN: 34828	FLAT	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T171
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1314.22733
			Truss Label: T19	/ BAF 04/29/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)										
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in	loc	L/defl	L/#	Gravity			Non-Gravity				
TCDL:	15.00	Speed:	109 mph	Pf: 15.4		Ce: 1.0	VERT(LL):	0.356	I	815	360	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00		VERT(CL):	0.610	I	476	240	L	1420	/-	/-	/611	/85	/136
BCDL:	10.00	Risk Category:	II	Snow Duration:	1.15		HORZ(LL):	0.075	G	-	-	G	1432	/-	/-	/616	/87	/-
Des Ld:	60.00	EXP: B	Kzt: NA				HORZ(TL):	0.129	G	-	-							
NCBCLL:	0.00	Mean Height:	21.84 ft	Building Code:			Creep Factor:	2.0										
Soffit:	2.00	TCDL:	5.0 psf	IBC 2018			Max TC CSI:	0.629										
Load Duration:	1.15	BCDL:	3.0 psf	TPI Std:	2014		Max BC CSI:	0.622										
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2	Rep Fac:	Yes		Max Web CSI:	0.787										
		C&C Dist a:	3.00 ft	FT/RT:	20(0)/10(0)													
		Loc. from endwall:	Any	Plate Type(s):														
		GCpi:	0.18															
		Wind Duration:	1.60	WAVE:	18SS													
				</														

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.36" DL: 0.25". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



04/29/2022

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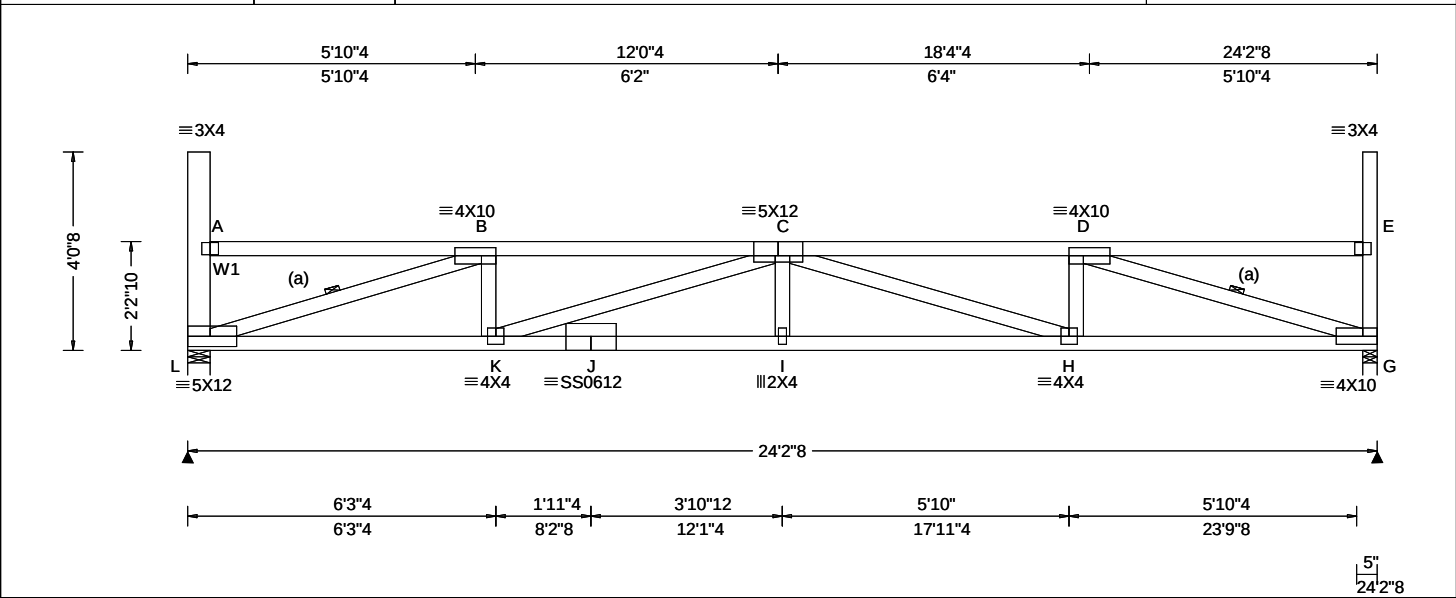
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34829 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T20	Cust: R 9316 JRef:1X1493160006 T179 DrwNo: 119.22.1314.24487 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.89 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.342 I 850 360 VERT(CL): 0.586 I 496 240 HORZ(LL): 0.074 G - - HORZ(TL): 0.126 G - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.610 Max Web CSI: 0.774 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 /- /- /611 /85 /135 G 1432 /- /- /616 /87 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 240 -3638 C - D 240 -3648

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3539 -349 I - H 4686 -311 K - J 4686 -311 H - G 3546 -211 J - I 4686 -311
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Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 243 -3629 C - H 133 -1093 B - K 667 -2 H - D 679 -1 K - C 134 -1104 D - G 240 -3676
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 23.46 1.82 29.72 4.79 23.92 0.00 23.46 1.82 29.72 4.79 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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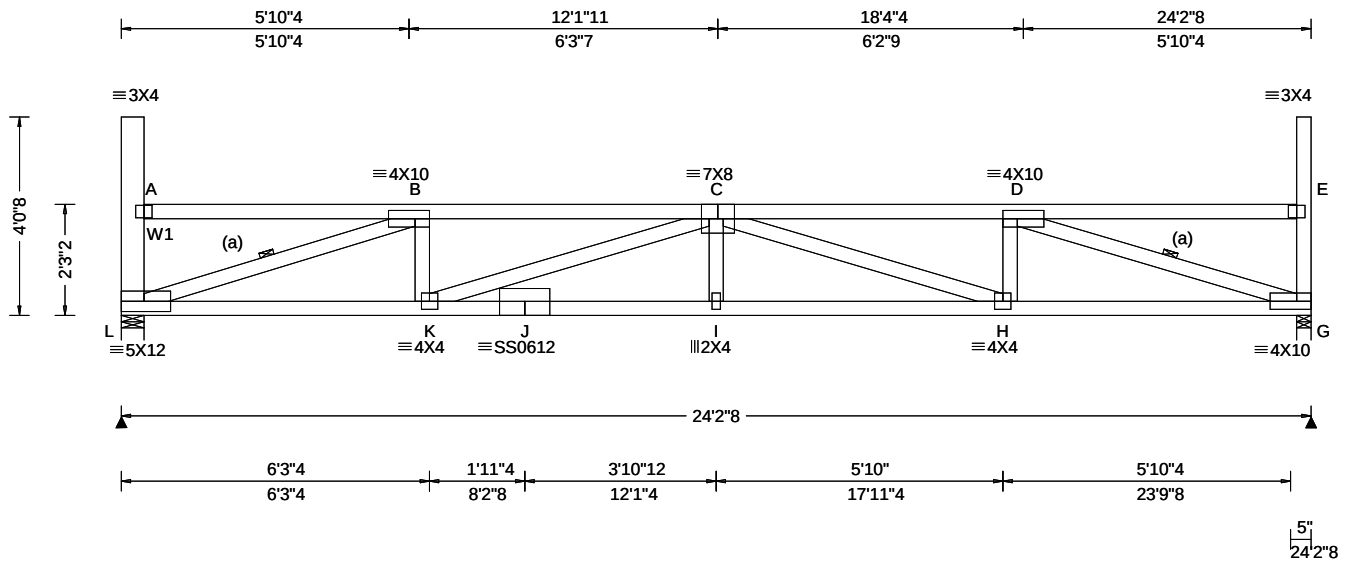
Deflection Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.
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SEQN: 34830	FLAT	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T183
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1314.26127
			Truss Label: T21	/ BAF 04/29/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in	loc L/defl L/#	Gravity			Non-Gravity				
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL):	0.328 I 886 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL):	0.562 I 517 240	L	1419	/-	/-	/611	/85	/134	
BCDL:	10.00	Risk Category:	II	Snow Duration:	1.15	HORZ(LL):	0.072 G - -	G	1431	/-	/-	/616	/87	/-	
Des Ld:	60.00	EXP:	B Kzt: NA			HORZ(TL):	0.123 G - -	Wind reactions based on MWFRS							
NCBCLL:	0.00	Mean Height:	21.93 ft	Building Code:		Creep Factor:	2.0	L	Brig Wid = 5.5 Min Req = 1.8 (Truss)						
Soffit:	2.00	TCDL:	5.0 psf	IBC 2018		Max TC CSI:	0.590	G	Brig Wid = 3.5 Min Req = 1.8 (Truss)						
Load Duration:	1.15	BCDL:	3.0 psf	TPI Std:	2014	Max BC CSI:	0.600	Bearings L & G are a rigid surface.							
Spacing:	24.0 "	MWFRS Parallel Dist:	h/2 to h	Rep Fac:	Yes	Max Web CSI:	0.761	Members not listed have forces less than 375#							
		C&C Dist a:	3.00 ft	FT/RT:	20(0)/10(0)			Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall:	Any	Plate Type(s):				Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi:	0.18	WAVE, 18SS		VIEW Ver: 21.02.00.1005.17		B - C	211	- 3560	C - D	211	- 3569		
		Wind Duration:	1.60												

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.33" DL: 0.23". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



~~04/29/2022~~

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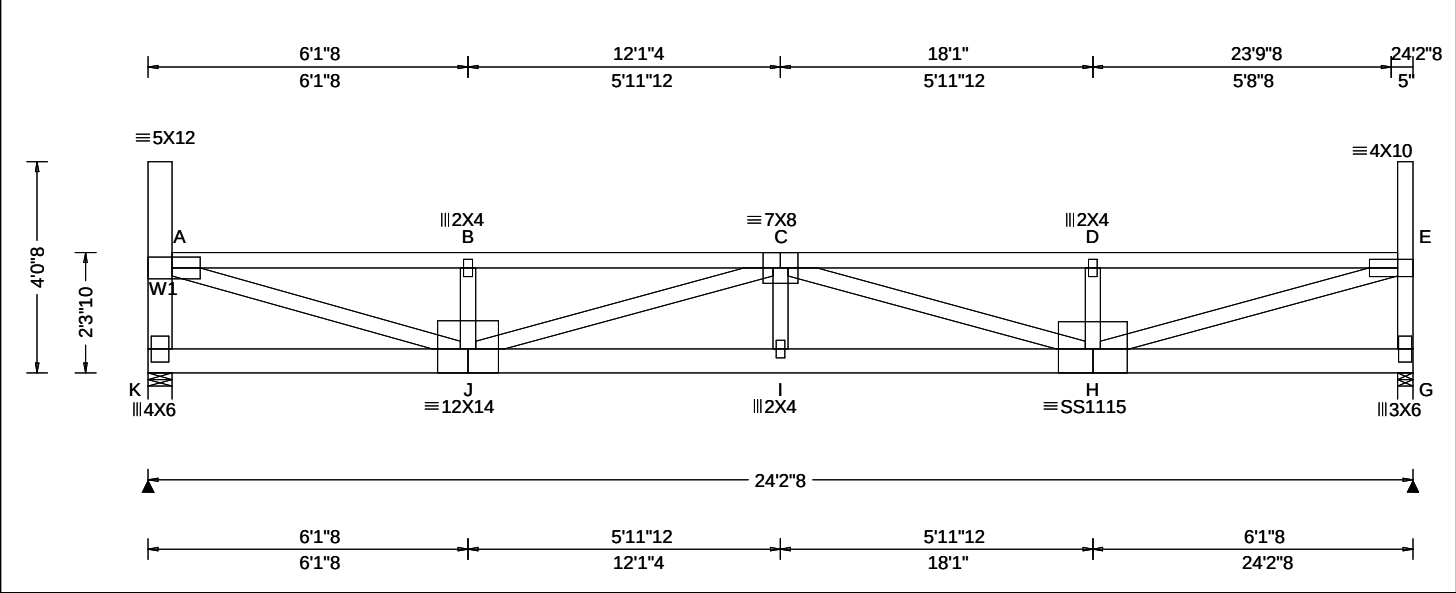
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34902 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T22	Cust: R 9316 JRef:1X1493160006 T174 DrwNo: 119.22.1314.27763 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.97 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.342 I 849 360 VERT(CL): 0.573 I 506 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.091 A - - Creep Factor: 2.0 Max TC CSI: 0.834 Max BC CSI: 0.604 Max Web CSI: 0.914 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1466 /- /- /611 /84 /129 G 1478 /- /- /616 /86 /- Non-Gravity Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.3 (Truss) G Brg Wid = 3.5 Min Req = 2.3 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 216 - 3663 C - D 215 - 3664 B - C 215 - 3658 D - E 216 - 3670

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.74 26.95 5.28
23.92 0.00 23.46 1.74 26.95 5.28
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

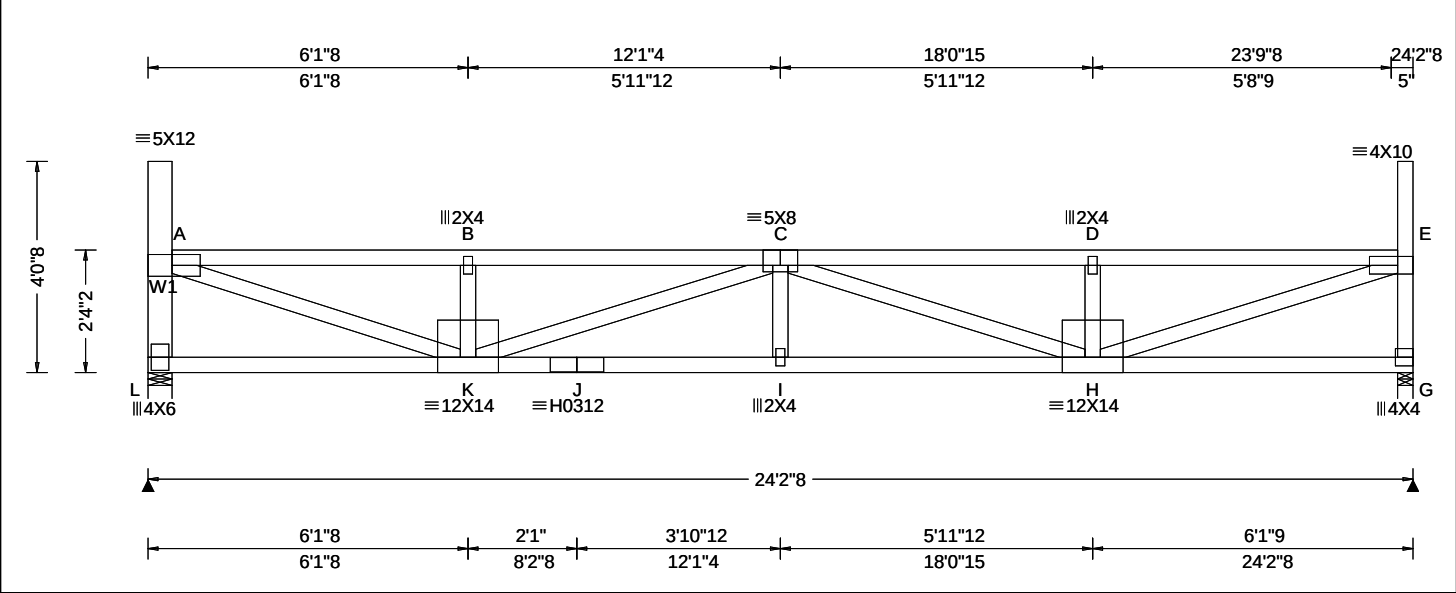
Truss must be installed as shown with top chord up.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	ALPINE AN ITW COMPANY 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 8

SEQN: 34832 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T23	Cust: R 9316 JRef:1X1493160006 T184 DrwNo: 119.22.1314.29380 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.318 I 912 360 VERT(CL): 0.545 I 532 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.092 A - - Creep Factor: 2.0 Max TC CSI: 0.807 Max BC CSI: 0.585 Max Web CSI: 0.853 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1421 /- /- /611 /85 /132 G 1432 /- /- /616 /87 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 209 -3403 C - D 209 -3407 B - C 209 -3398 D - E 209 -3412

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.70 25.57 5.57
23.92 0.00 23.46 1.70 25.57 5.57
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

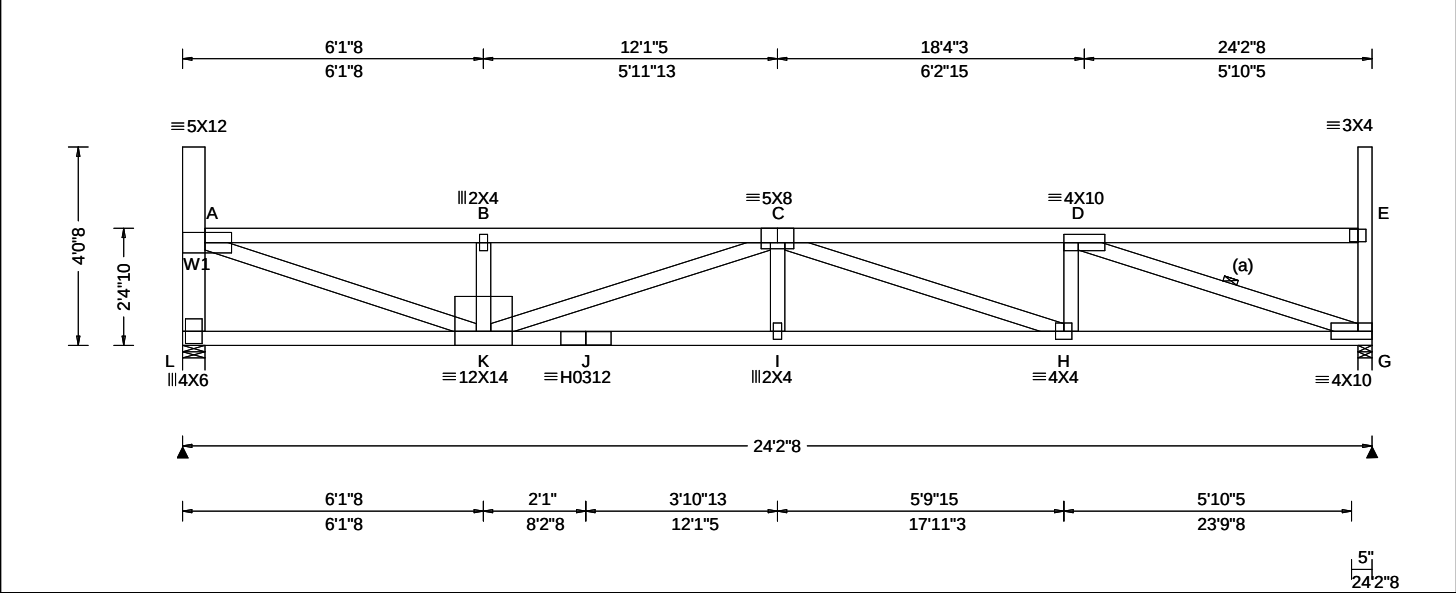
Truss must be installed as shown with top chord up.



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SEQN: 34833 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T24	Cust: R 9316 JRef:1X1493160006 T176 DrwNo: 119.22.1314.31003 / BAF 04/29/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.299 I 972 360 VERT(CL): 0.512 I 567 240 HORZ(LL): 0.054 G - - HORZ(TL): 0.092 G - - Creep Factor: 2.0 Max TC CSI: 0.764 Max BC CSI: 0.579 Max Web CSI: 0.822 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
	L	1421	/-	/-	/611	/85	/131			
	G	1432	/-	/-	/616	/87	/-			
	Wind reactions based on MWFRS									
	L Brg Wid = 5.5 Min Req = 1.8 (Truss)									
	G Brg Wid = 3.5 Min Req = 1.8 (Truss)									
	Bearings L & G are a rigid surface.									
	Members not listed have forces less than 375#									
Maximum Top Chord Forces Per Ply (lbs)										
Chords			Tens.Comp.		Chords		Tens. Comp.			
A - B	206 - 3337		C - D		202 - 3365					
B - C	205 - 3332									

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	
Bracing	

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
K - J	4318 - 292	I - H	4318 - 292
J - I	4318 - 292	H - G	3272 - 202

Bracing							J - I 4318 -292 H - G 3272 -202							
(a) Continuous lateral restraint equally spaced on member.														
Loading							Maximum Web Forces Per Ply (lbs)							
							<u>Webs</u>		<u>Tens.Comp.</u>		<u>Webs</u>		<u>Tens. Comp.</u>	
Drifting snow load has been considered for only in plane loading as follows:							L - A		100 - 1279		C - H		112 -1012	
Location Lu1 Lu2 Height Pd W							A - K		3348 - 227		H - D		677 0	
4.6 2.0 23.45 1.66 24.10 5.82							K - C		112 - 1044		D - G		225 -3421	

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.66 24.19 5.83
23.92 0.00 23.46 1.66 24.19 5.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

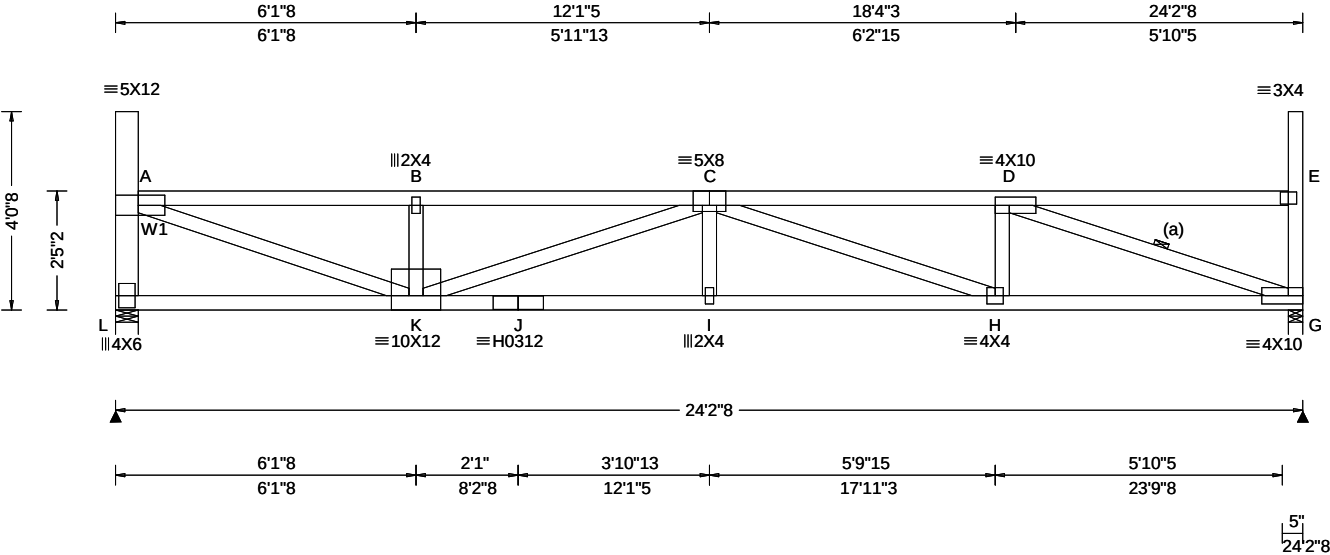
Additional Notes
Truss must be installed as shown with top chord up.



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SEQN: 34834 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T25	Cust: R 9316 JRef:1X1493160006 T172 DrwNo: 119.22.1314.32617 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.288 I 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.493 I 588 240	L	1421	/ -	/ -	/611	/85	/129
	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.053 G - -	G	1432	/ -	/ -	/616	/87	/ -
	EXP: B Kzt: NA		HORZ(TL): 0.090 G - -	Wind reactions based on MWFRS						
	Mean Height: 22.09 ft		Creep Factor: 2.0	L	Brg Wid = 5.5		Min Req = 1.8 (Truss)			
	TCDL: 5.0 psf		Max TC CSI: 0.728	G	Brg Wid = 3.5		Min Req = 1.8 (Truss)			
	BCDL: 3.0 psf		Max BC CSI: 0.570	Bearings L & G are a rigid surface.						
	MWFRS Parallel Dist: h/2 to h		Max Web CSI: 0.808	Members not listed have forces less than 375#						
C&C Dist a: 3.00 ft			Maximum Top Chord Forces Per Ply (lbs)							
Loc. from endwall: not in 14.50 ft			Chords		Tens.Comp.		Chords		Tens. Comp.	
GCpi: 0.18			A - B	202 - 3274		C - D		198 - 3301		
Wind Duration: 1.60			B - C	201 - 3269						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.61	22.80 5.50
	23.92	0.00	23.46	1.61	22.80 5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

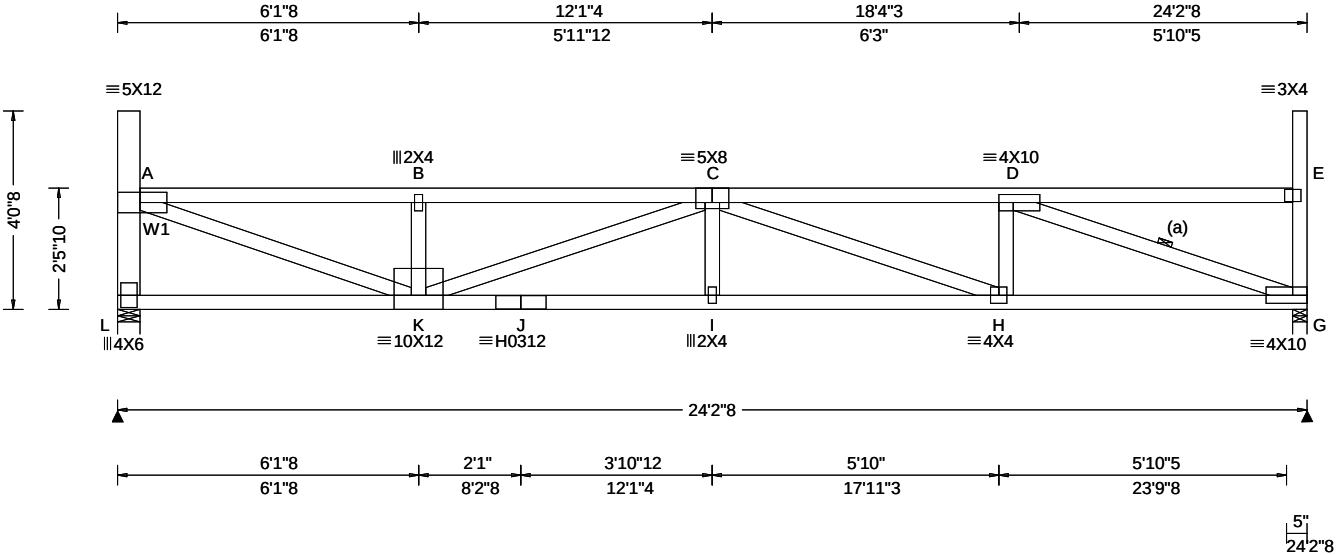
Truss must be installed as shown with top chord up.



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SEQN: 34835 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T26	Cust: R 9316 JRef:1X1493160006 T173 DrwNo: 119.22.1314.37510 / BAF 04/29/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.278 I 999 360 VERT(CL): 0.476 I 610 240 HORZ(LL): 0.052 G - - HORZ(TL): 0.089 G - - Creep Factor: 2.0 Max TC CSI: 0.696 Max BC CSI: 0.562 Max Web CSI: 0.794 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
	L	1421	/-	/-	/611	/86	/128			
	G	1432	/-	/-	/616	/88	/-			
	Wind reactions based on MWFRS									
	L Brg Wid = 5.5 Min Req = 1.8 (Truss)									
	G Brg Wid = 3.5 Min Req = 1.8 (Truss)									
	Bearings L & G are a rigid surface.									
	Members not listed have forces less than 375#									
Maximum Top Chord Forces Per Ply (lbs)										
Chords			Tens.Comp.		Chords			Tens. Comp.		
A - B	199 - 3212		C - D		195 - 3240					
B - C	198 - 3208									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.57 21.42 5.16
23.92 0.00 23.46 1.57 21.42 5.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
K - J	4155 - 284	I - H	4155 - 284
J - I	4155 - 284	H - G	3150 - 197

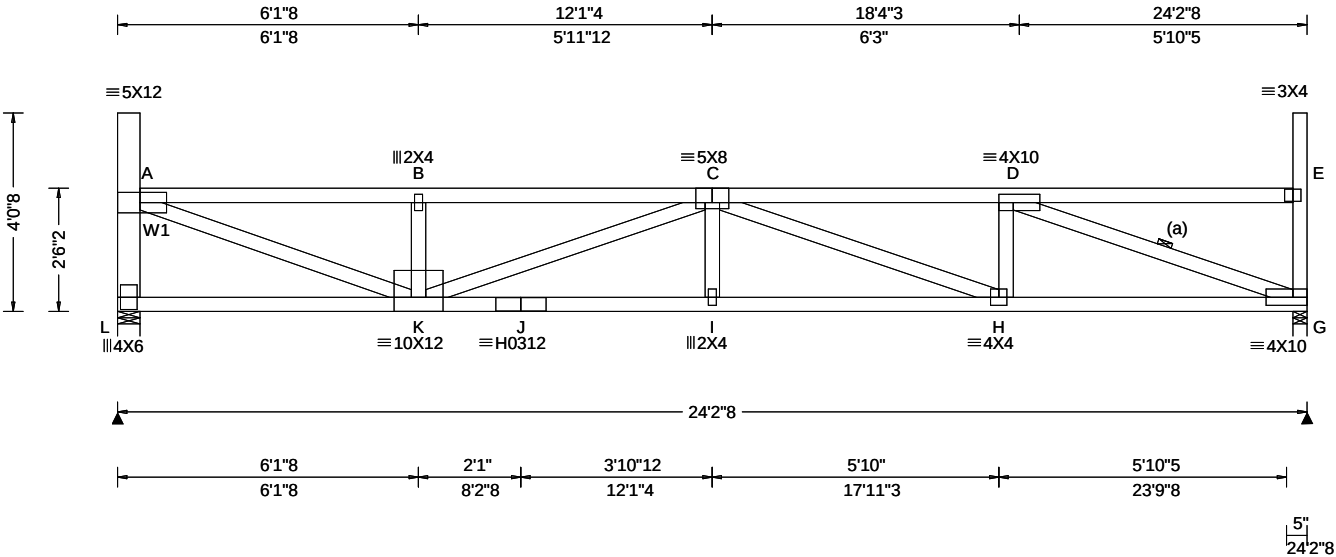
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
L - A	100 - 1280	C - H	107 - 977
A - K	3236 - 219	H - D	677 - 0
B - K	79 - 378	D - G	218 - 3308
K - C	107 - 1008		

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SEQN: 34836 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T27	Cust: R 9316 JRef:1X1493160006 T157 DrwNo: 119.22.1314.39170 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.18 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.268 I 999 360 VERT(CL): 0.459 I 632 240 HORZ(LL): 0.051 G - - HORZ(TL): 0.087 G - - Creep Factor: 2.0 Max TC CSI: 0.665 Max BC CSI: 0.557 Max Web CSI: 0.781 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 /- /- /611 /86 /127 G 1432 /- /- /615 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 196 - 3154 C - D 192 - 3180 B - C 195 - 3149

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

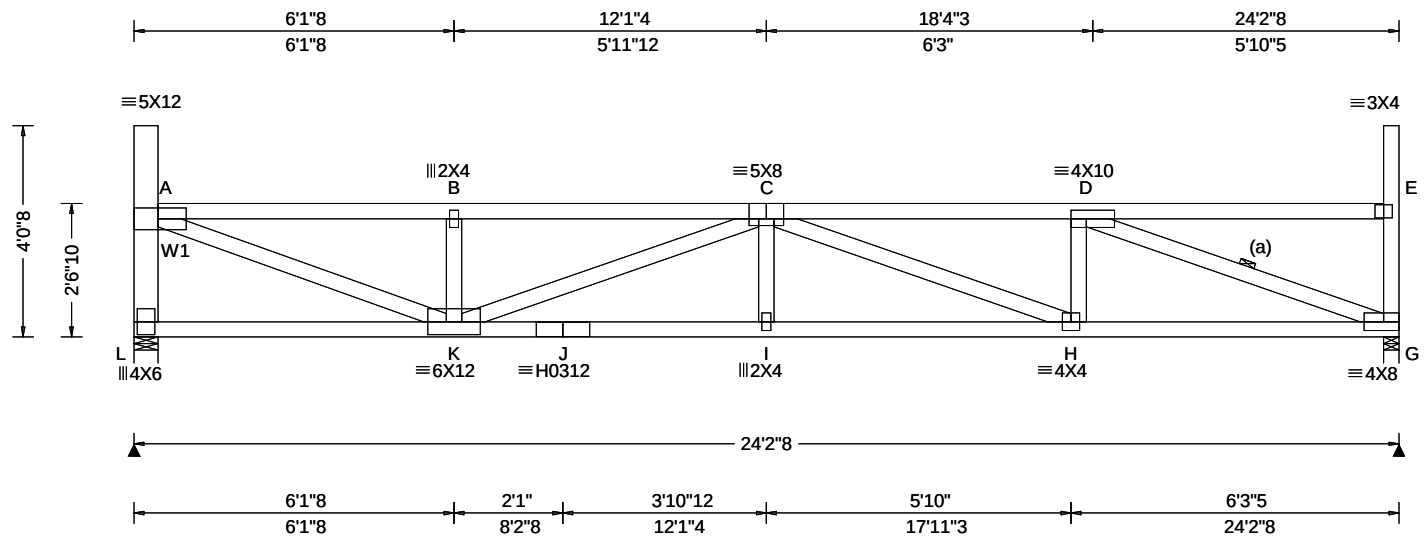
Additional Notes

Truss must be installed as shown with top chord up.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025	
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SEQN: 34837	FLAT	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T181
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1314.40810
			Truss Label: T28	/ BAF 04/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.259 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.443 I 655 240	L 1421 I/- /- /610 /86 /126
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.050 G - -	G 1432 I/- /- /615 /88 I/-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.086 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.22 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.637	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.551	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.768	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	
				A - B 193 -3097 C - D 189 -3122

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



04/29/2022

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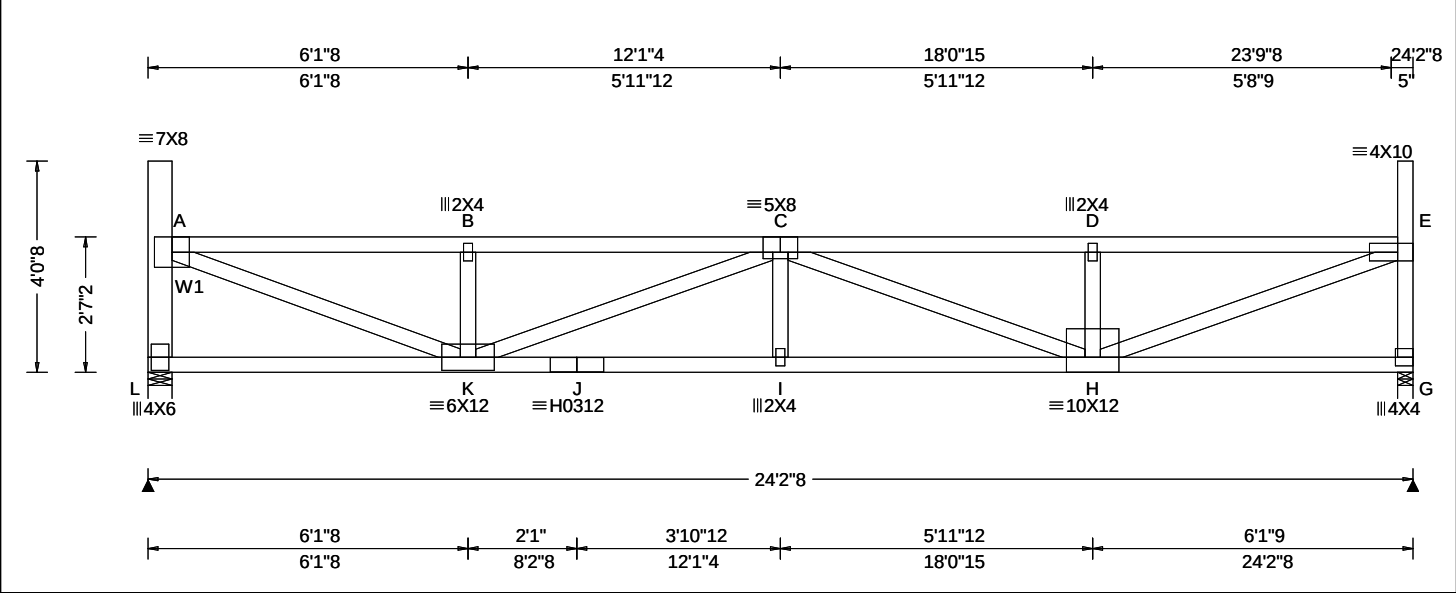
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34838 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T29	Cust: R 9316 JRef:1X1493160006 T182 DrwNo: 119.22.1314.42410 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.439 I 661 240 HORZ(LL): 0.049 A - - HORZ(TL): 0.083 A - - Creep Factor: 2.0 Max TC CSI: 0.645 Max BC CSI: 0.540 Max Web CSI: 0.771 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1421 /- /- /610 /86 /125 G 1432 /- /- /615 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 190 -3042 C - D 189 -3045 B - C 189 -3037 D - E 190 -3050

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.45 17.27 4.16
23.92 0.00 23.46 1.45 17.27 4.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



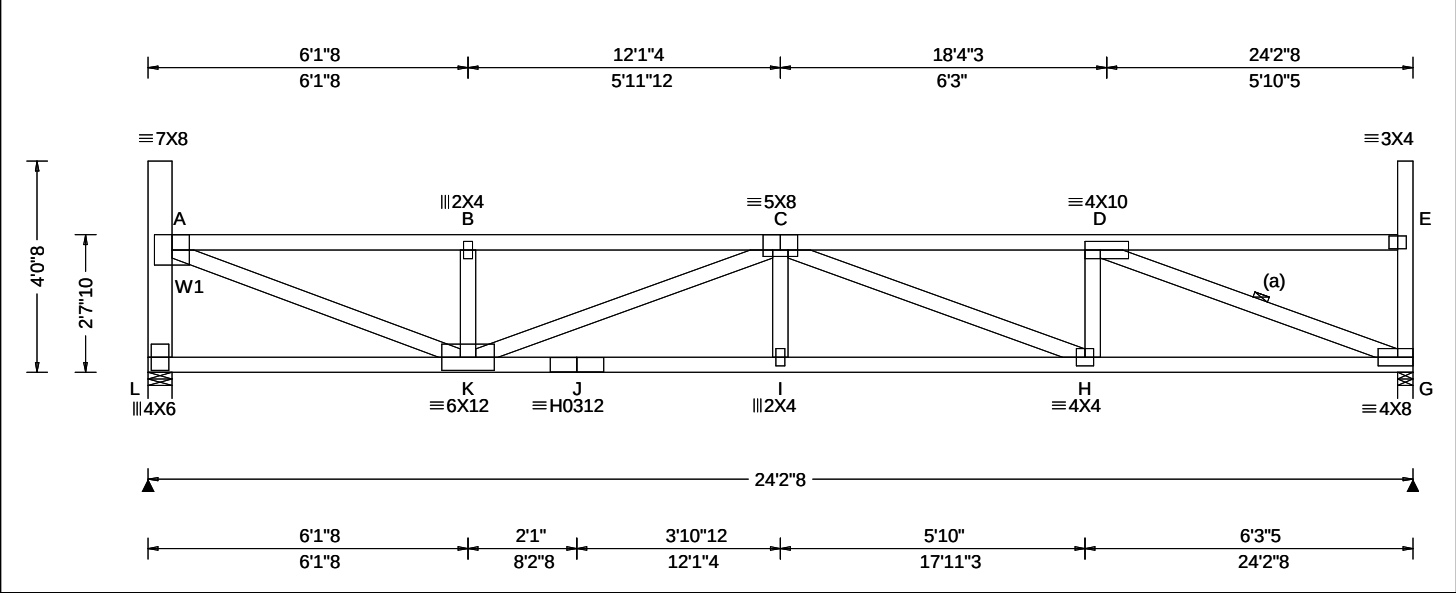
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34839 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T30	Cust: R 9316 JRef:1X1493160006 T178 DrwNo: 119.22.1314.44043 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity						
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	L	1421	/-	/-	/610	/86	/123
	BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	G	1432	/-	/-	/615	/88	/-
	Des Ld: 60.00	EXP: B Kzt: NA		Wind reactions based on MWFRS						
	NCBCLL: 0.00	Mean Height: 22.30 ft	Building Code:	L	Brg Wid = 5.5 Min Req = 1.8 (Truss)					
	Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	G	Brg Wid = 3.5 Min Req = 1.8 (Truss)					
	Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Bearings L & G are a rigid surface.						
	Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: not in 14.50 ft	Plate Type(s):	Chords	Tens.Comp.		Chords	Tens. Comp.			
	GCpi: 0.18		A - B	187 - 2989		C - D	183 - 3014			
	Wind Duration: 1.60	WAVE, HS	B - C	186 - 2985						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.41	15.89 3.83
	23.92	0.00	23.46	1.41	15.89 3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

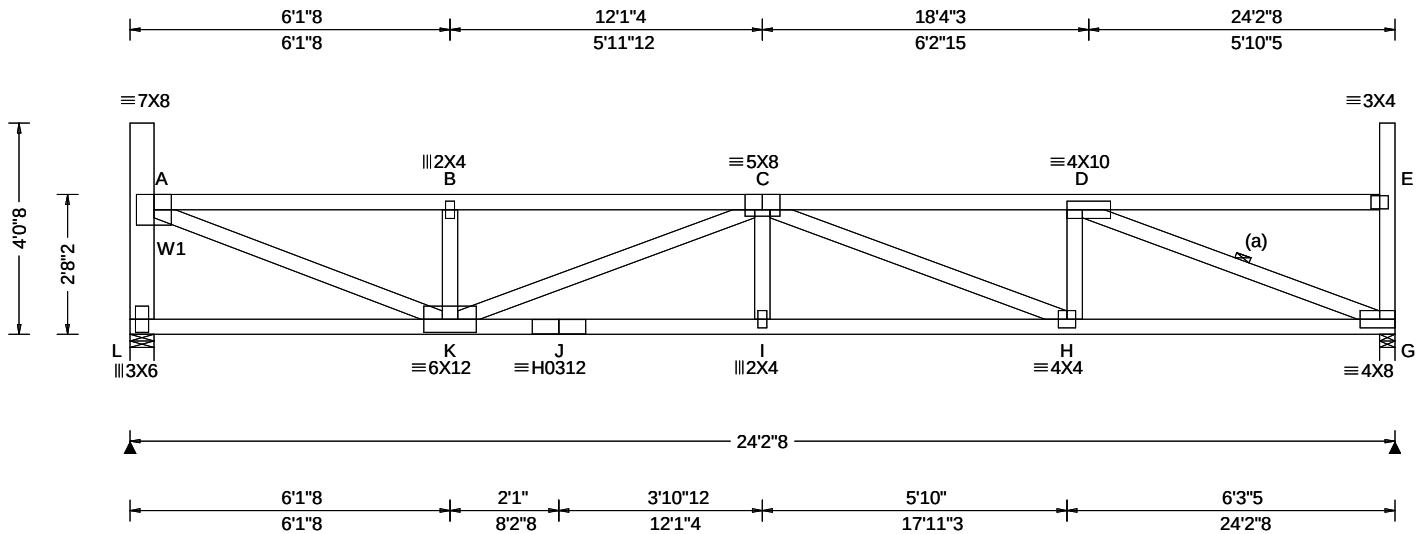
Additional Notes

Truss must be installed as shown with top chord up.



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SEQN: 34840	FLAT	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T185
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1314.45777
			Truss Label: T31	/ BAF 04/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.234 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.401 I 724 240	L 1421 /- /- /610 /86 /122
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.047 G - -	G 1432 /- /- /615 /88 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.081 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.34 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.595	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.536	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.733	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	
				A - B 184 - 2938 C - D 180 - 2962
				D - C 103 - 2938

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.23" DL: 0.17". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



04/29/2022

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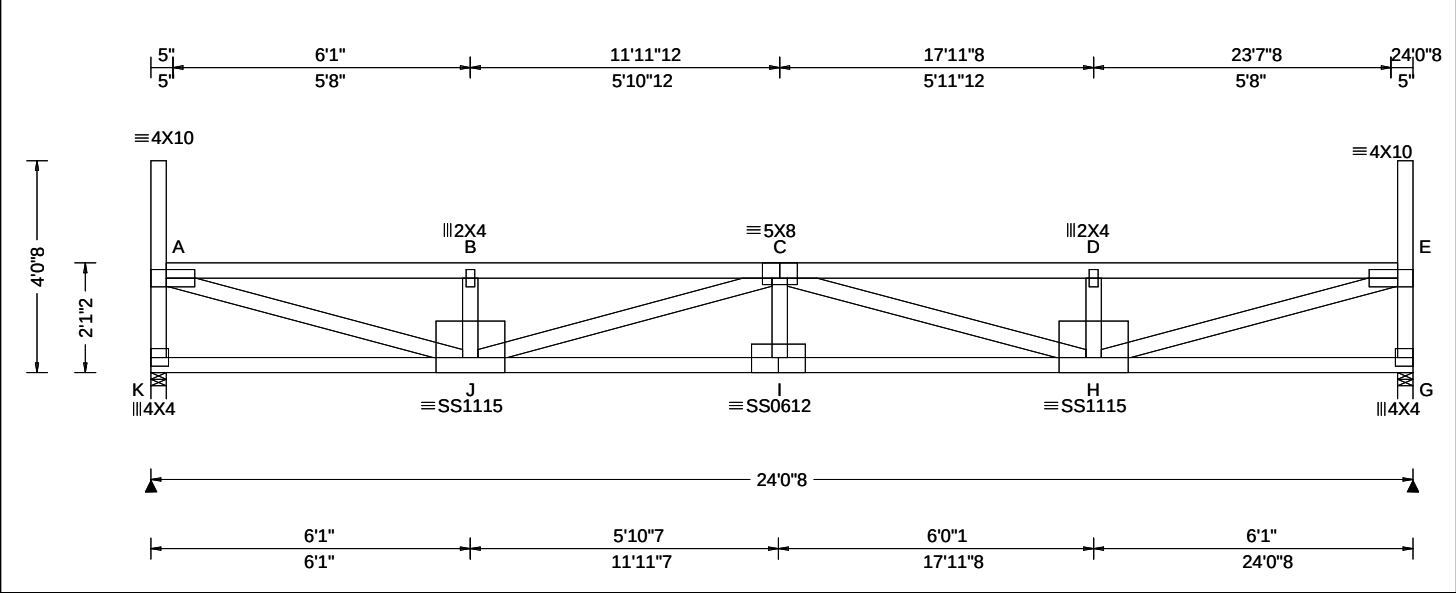
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34841 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T33	Cust: R 9316 JRef:1X1493160006 T191 DrwNo: 119.22.1314.49357 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.76 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.398 I 725 360 VERT(CL): 0.682 I 423 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.100 A - - Creep Factor: 2.0 Max TC CSI: 0.868 Max BC CSI: 0.652 Max Web CSI: 0.944 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1421 -/- /- /612 /86 /139 G 1421 -/- /- /612 /86 -/ Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 255 -3812 C - D 254 -3811 B - C 254 -3807 D - E 255 -3816

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.95 33.87 4.20
23.75 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.28". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

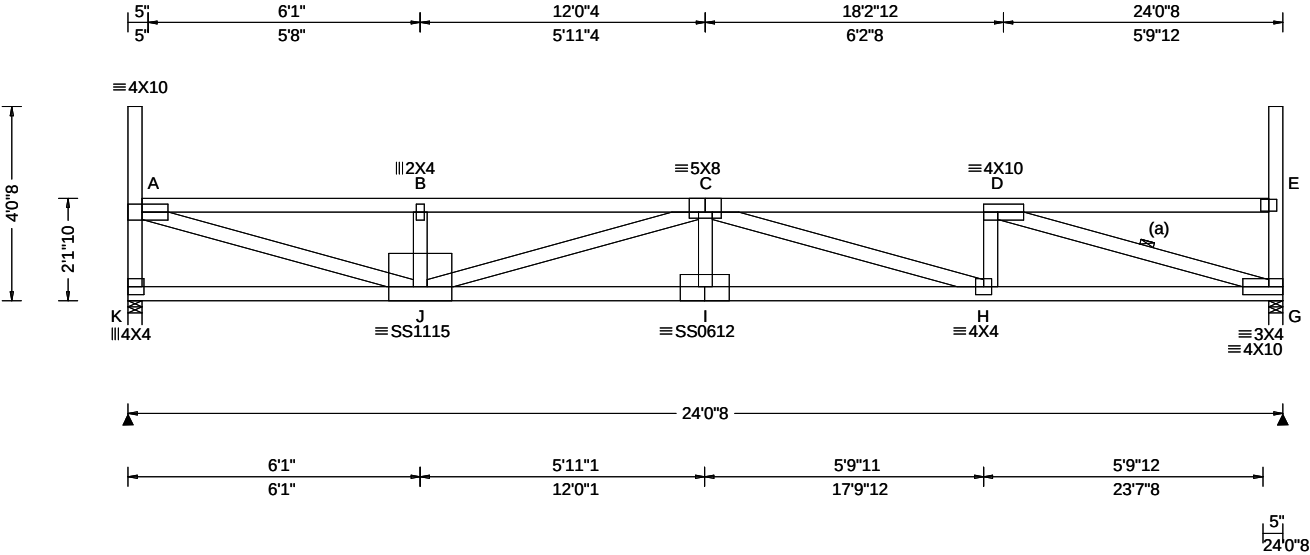


04/29/2022

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SEQN: 34842 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T34	Cust: R 9316 JRef:1X1493160006 T200 DrwNo: 119.22.1314.50930 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.371 I 776 360 VERT(CL): 0.637 I 453 240 HORZ(LL): 0.059 G - - HORZ(TL): 0.102 G - - Creep Factor: 2.0 Max TC CSI: 0.854 Max BC CSI: 0.639 Max Web CSI: 0.925 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1422 /- /- /612 /86 /138 G 1422 /- /- /612 /86 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 250 -3732 C - D 247 -3757 B - C 249 -3727

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.27". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

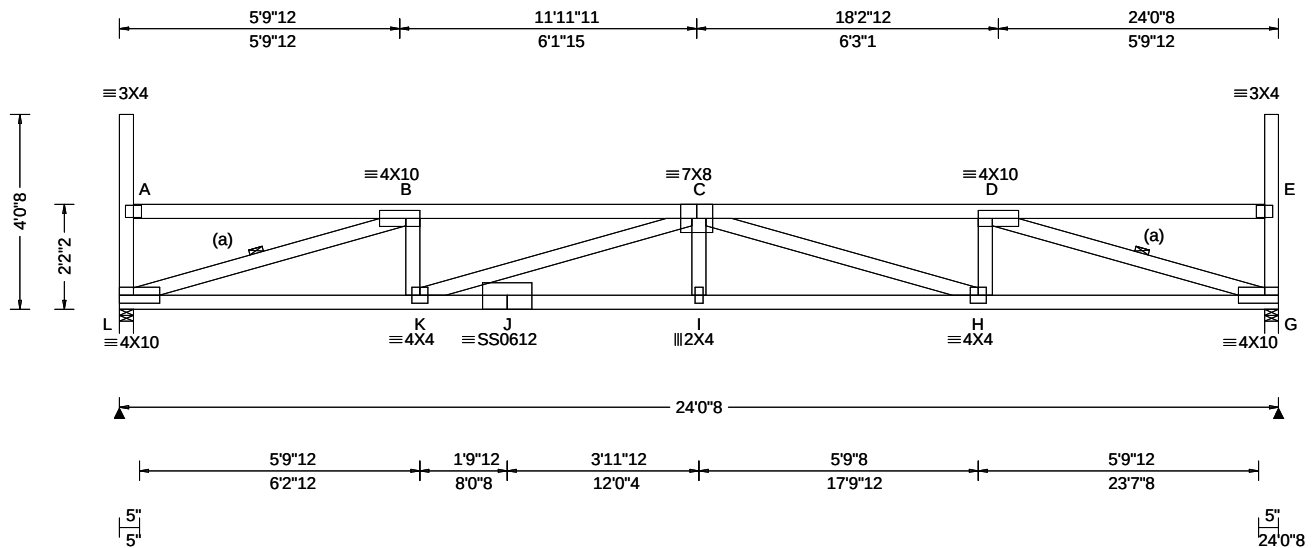
Additional Notes

Truss must be installed as shown with top chord up.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025	
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SEQN: 34843	FLAT	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T205
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1314.52577
			Truss Label: T35	/ BAF 04/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.346 I 832 360	Loc R+ /R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.594 I 486 240	L 1420 /- /- /612 /86 /136
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.074 G - -	G 1420 /- /- /612 /86 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.126 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.84 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.608	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.612	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.770	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	B - C 240 -3672 C - D 240 -3671

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.35" DL: 0.25". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



04/29/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBCA: sbaccomponents.com; ICC: iccsafe.org; AWC: awc.org

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	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1420	/-	/-	/612	/86	/136
G	1420	/-	/-	/612	/86	/-

Wind reactions based on MWFRS
 L Brg Wid = 3.5 Min Req = 1.8 (Truss)
 G Brg Wid = 3.5 Min Req = 1.8 (Truss)
 Bearings L & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	240 - 3672	C - D	240 - 3671

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
L - K	3569 - 352	I - H	4710 - 310
K - J	4710 - 310	H - G	3568 - 209
J - I	4710 - 310		

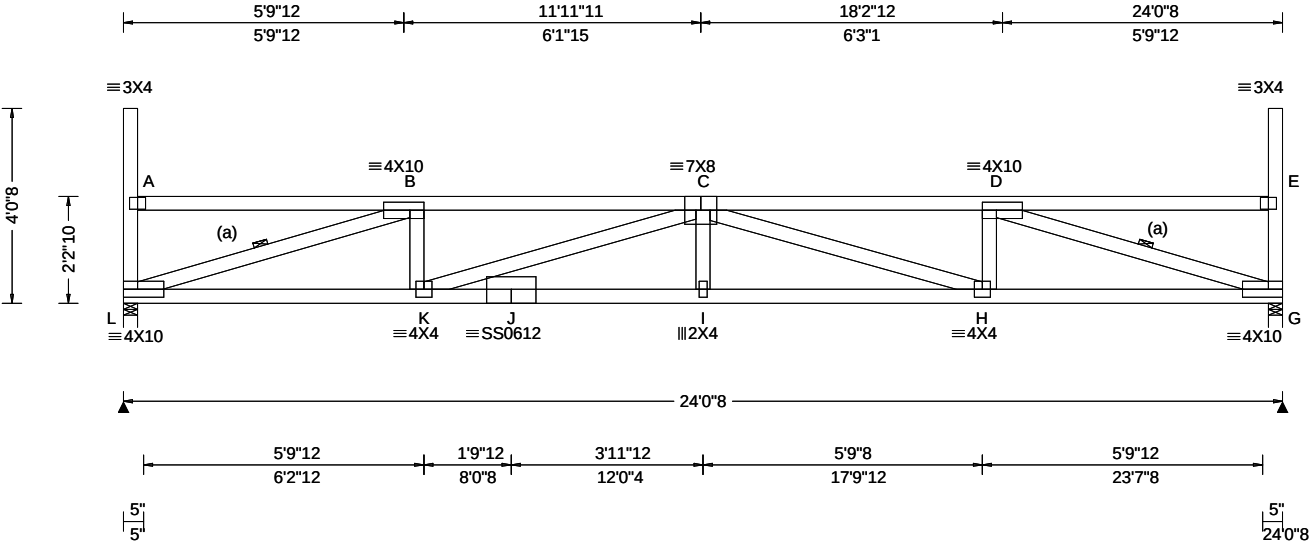
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
L - B	241 - 3694	C - H	134 - 1093
B - K	673 - 1	H - D	672 - 1
K - C	136 - 1092	D - G	240 - 3693

ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34844 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T36	Cust: R 9316 JRef:1X1493160006 T213 DrwNo: 119.22.1314.56073 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.89 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.332 I 868 360 VERT(CL): 0.570 I 506 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.123 G - - Creep Factor: 2.0 Max TC CSI: 0.588 Max BC CSI: 0.603 Max Web CSI: 0.757 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1420 /- /- /612 /86 /135 G 1420 /- /- /612 /86 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 236 -3595 C - D 236 -3594

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3494 -346 I - H 4610 -305 K - J 4610 -305 H - G 3493 -207 J - I 4610 -305
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Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 236 -3624 C - H 131 -1071 B - K 673 -1 H - D 672 -1 K - C 133 -1070 D - G 236 -3623
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.82 29.72 4.79 23.75 0.00 23.46 1.82 29.72 4.79 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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Deflection Max JT VERT DEFL: LL: 0.33" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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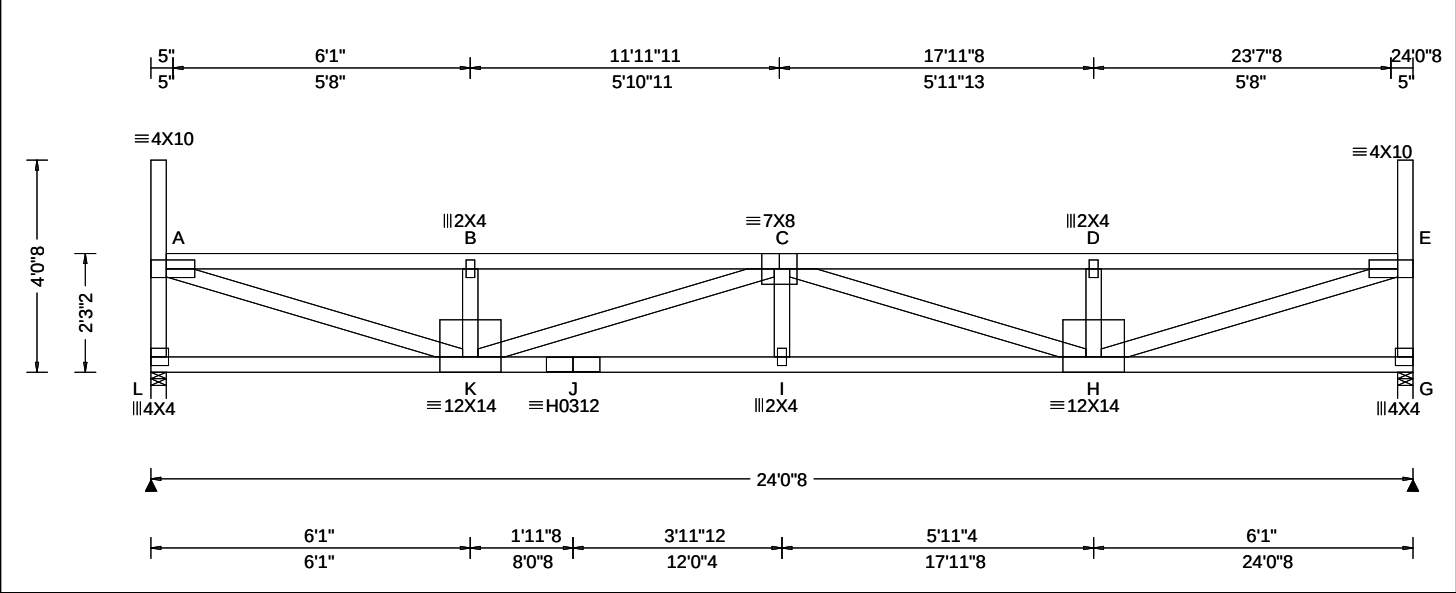
Additional Notes Truss must be installed as shown with top chord up.
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Building 8

SEQN: 34845 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T37	Cust: R 9316 JRef:1X1493160006 T204 DrwNo: 119.22.1314.57703 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.93 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.336 I 858 360 VERT(CL): 0.576 I 500 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.093 A - - Creep Factor: 2.0 Max TC CSI: 0.812 Max BC CSI: 0.594 Max Web CSI: 0.872 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1420 /- /- /612 /86 /134 G 1420 /- /- /612 /86 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 213 -3499 C - D 212 -3493 B - C 212 -3494 D - E 213 -3498

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.78 28.34 5.03
23.75 0.00 23.46 1.78 28.34 5.03
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.24". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

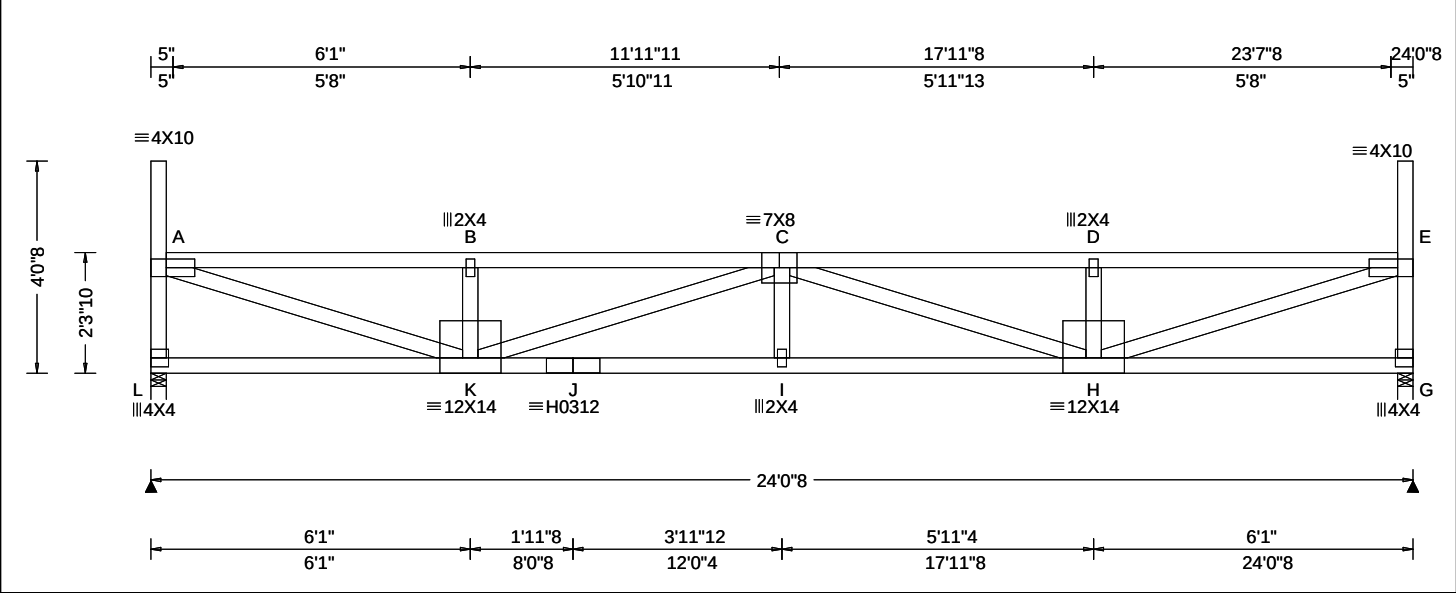


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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 8

SEQN: 34846 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T38	Cust: R 9316 JRef:1X1493160006 T209 DrwNo: 119.22.1314.59340 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity				
	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.323 I 893 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.554 I 521 240	L	1420	/-	/-	/612	/86	/133	
	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.053 A - -	G	1420	/-	/-	/612	/86	/-	
Des Ld: 60.00	EXP: B Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	HORZ(TL): 0.091 A - -	Wind reactions based on MWFRS							
NCBCLL: 0.00	Mean Height: 21.97 ft		Creep Factor: 2.0	L	Brg Wid = 3.5	Min Req = 1.8	(Truss)				
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.799	G	Brg Wid = 3.5	Min Req = 1.8	(Truss)				
Load Duration: 1.15	BCDL: 3.0 psf		Max BC CSI: 0.585	Bearings L & G are a rigid surface.							
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h		Max Web CSI: 0.856	Members not listed have forces less than 375#							
	C&C Dist a: 3.00 ft			Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: not in 14.50 ft			Chords		Tens.Comp.		Chords		Tens. Comp.	
	GCpi: 0.18			A - B	209	- 3429	C - D	208	- 3423		
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	B - C	208	- 3423	D - E	209	- 3428		

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.74 26.95 5.28
23.75 0.00 23.46 1.74 26.95 5.28
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

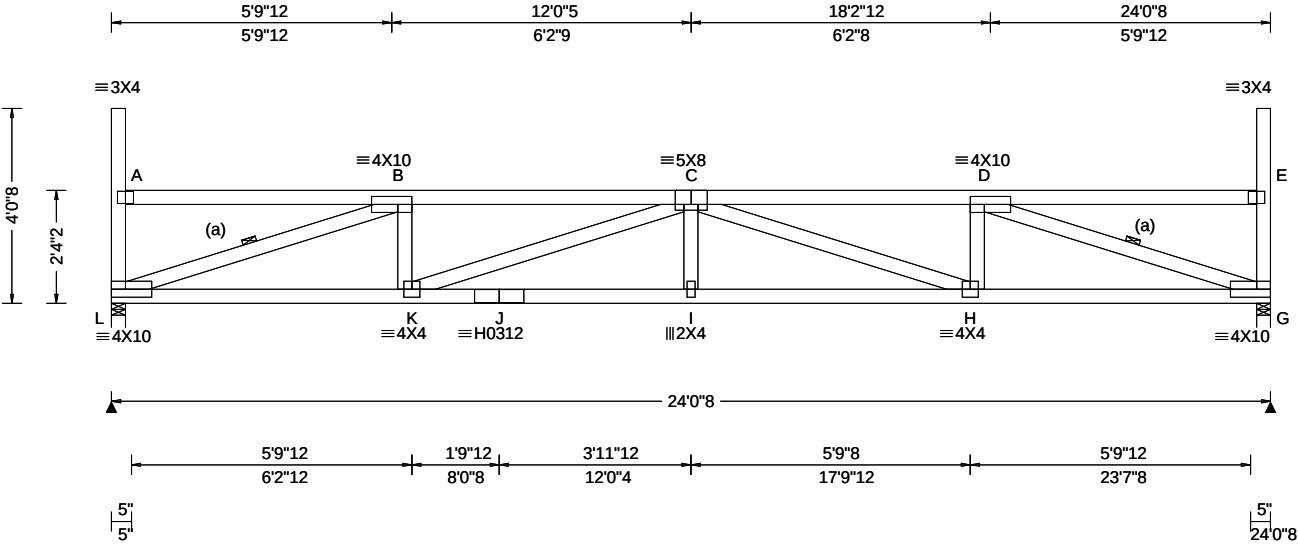
Truss must be installed as shown with top chord up.



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SEQN: 34847 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T39	Cust: R 9316 JRef:1X1493160006 T199 DrwNo: 119.22.1315.01013 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.296 I 975 360 VERT(CL): 0.507 I 569 240 HORZ(LL): 0.068 G - - HORZ(TL): 0.116 G - - Creep Factor: 2.0 Max TC CSI: 0.542 Max BC CSI: 0.578 Max Web CSI: 0.723 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /612 /87 /132 G 1422 /- /- /612 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 202 -3386 C - D 202 -3384

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Chords Tens.Comp. Chords Tens. Comp. L - K 3291 -310 I - H 4342 -294 K - J 4342 -294 H - G 3290 -201 J - I 4342 -294

Bracing	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Webs Tens.Comp. Webs Tens. Comp. L - B 226 -3436 C - H 115 -1016 B - K 674 0 H - D 674 0 K - C 117 -1015 D - G 226 -3435

Loading
Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.70 25.57 5.57 23.75 0.00 23.46 1.70 25.57 5.57 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.

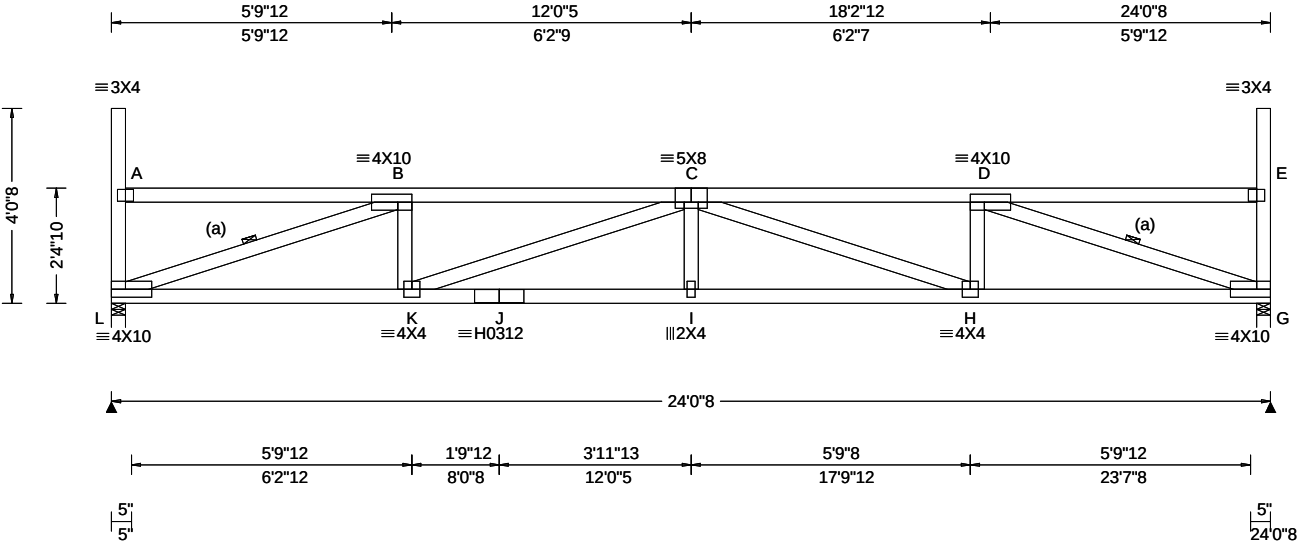
Deflection
Max JT VERT DEFL: LL: 0.30" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 34848 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T40	Cust: R 9316 JRef:1X1493160006 T211 DrwNo: 119.22.1315.02670 / BAF 04/29/2022
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Loading Criteria (psf) TCCL: 20.00 TCDL: 15.00 BCCL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.285 I 999 360 VERT(CL): 0.488 I 590 240 HORZ(LL): 0.066 G - - HORZ(TL): 0.114 G - - Creep Factor: 2.0 Max TC CSI: 0.529 Max BC CSI: 0.571 Max Web CSI: 0.713 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs) Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /612 /87 /131 G 1422 /- /- /612 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -3320 C - D 199 -3319
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Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
L - K	3227 -305	I - H	4257 -290
K - J	4257 -290	H - G	3226 -199
J - I	4257 -290		

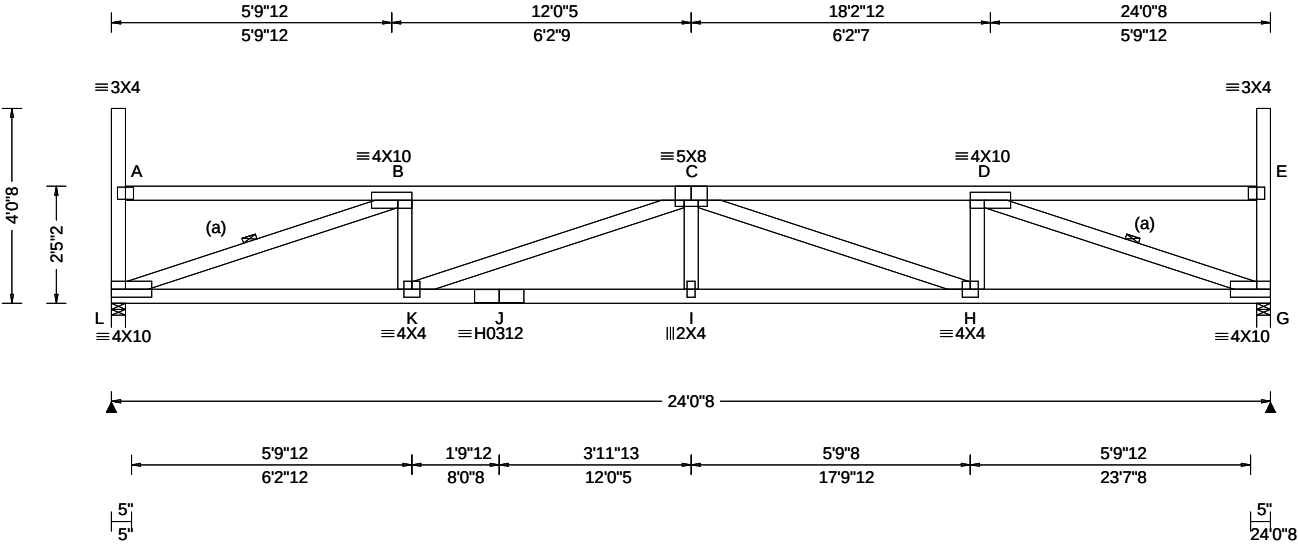
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
L - B	222 -3377	C - H	113 -998
B - K	674 0	H - D	674 0
K - C	114 -996	D - G	222 -3376

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SEQN: 34849 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T41	Cust: R 9316 JRef:1X1493160006 T201 DrwNo: 119.22.1315.04263 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.275 I 999 360 VERT(CL): 0.471 I 612 240 HORZ(LL): 0.065 G - - HORZ(TL): 0.112 G - - Creep Factor: 2.0 Max TC CSI: 0.516 Max BC CSI: 0.565 Max Web CSI: 0.703 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /612 /87 /129 G 1422 /- /- /612 /87 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 195 - 3257 C - D 196 - 3255

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
L - K	3166 - 320	I - H	4175 - 286
K - J	4175 - 286	H - G	3164 - 197
J - I	4175 - 286		

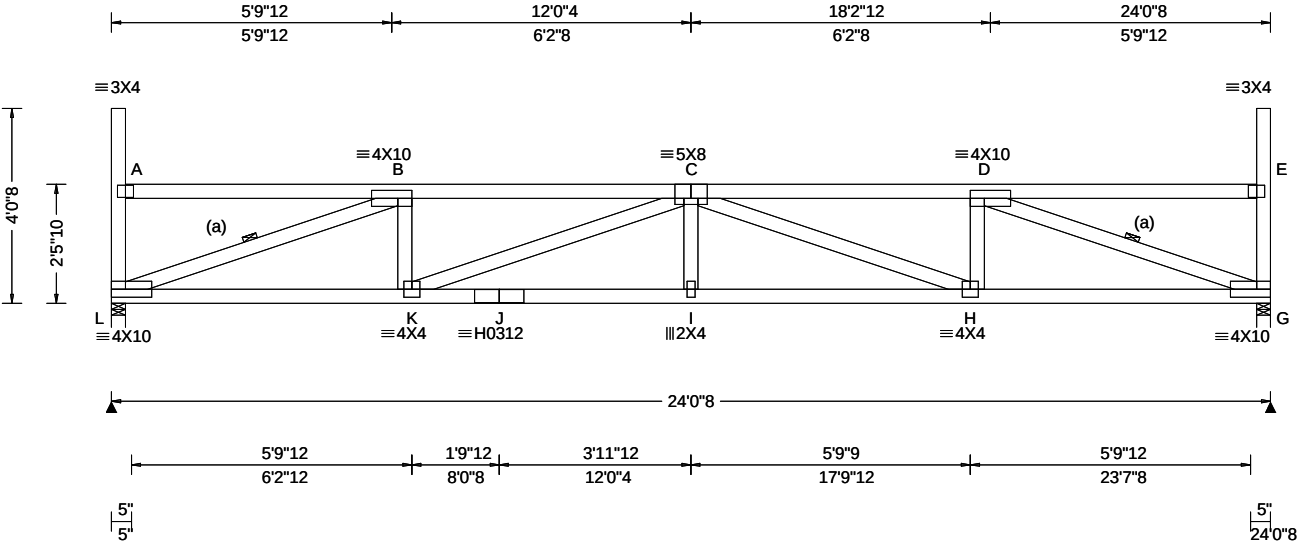
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
L - B	219 - 3320	C - H	118 - 980
B - K	674 - 1	H - D	674 0
K - C	120 - 979	D - G	218 - 3319

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SEQN: 34850 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T42	Cust: R 9316 JRef:1X1493160006 T195 DrwNo: 119.22.1315.05910 / BAF 04/29/2022
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Loading Criteria (psf)	TCLL: 20.00	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.265 I 999 360 VERT(CL): 0.454 I 635 240 HORZ(LL): 0.064 G - - HORZ(TL): 0.110 G - - Creep Factor: 2.0 Max TC CSI: 0.510 Max BC CSI: 0.559 Max Web CSI: 0.693 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
	TCDL: 15.00				Gravity			Non-Gravity			
	BCLL: 15.00				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCDL: 10.00				L	1422	/-	/-	/612	/87	/128
	Des Ld: 60.00				G	1422	/-	/-	/612	/87	/-
	NCBCLL: 0.00				Wind reactions based on MWFRS						
	Soffit: 2.00				L	Brg Wid = 3.5	Min Req = 1.8 (Truss)				
	Load Duration: 1.15				G	Brg Wid = 3.5	Min Req = 1.8 (Truss)				
	Spacing: 24.0 "				Bearings L & G are a rigid surface.						
					Members not listed have forces less than 375#						
	Maximum Top Chord Forces Per Ply (lbs)										
	Chords	Tens.Comp.	Chords	Tens. Comp.							
	B - C	192 - 3196	C - D	193 - 3195							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.57 21.42 5.16
23.75 0.00 23.46 1.57 21.42 5.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
L - K	3106 - 315	I - H	4096 - 282
K - J	4096 - 282	H - G	3105 - 195
J - I	4096 - 282		

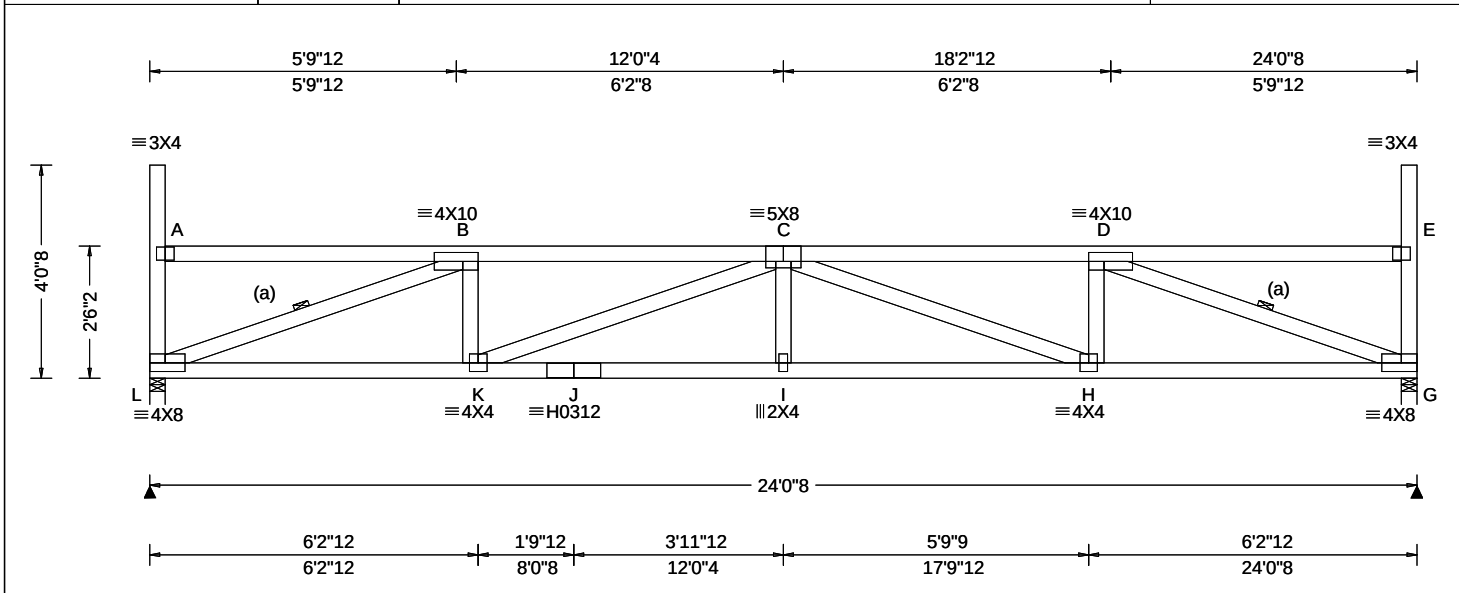
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
L - B	215 - 3266	C - H	116 - 963
B - K	675 0	H - D	674 0
K - C	117 - 962	D - G	215 - 3265

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SEQN: 34851	FLAT	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T198
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1315.07633
			Truss Label: T43	/ BAF 04/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15	PP Deflection in loc L/defl L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.438 I 658 240 HORZ(LL): 0.063 G - - HORZ(TL): 0.108 G - -	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 -/- /- /611 /87 /127 G 1422 -/- /- /611 /87 -/ Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Mean Height: 22.18 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Creep Factor: 2.0 Max TC CSI: 0.507 Max BC CSI: 0.553 Max Web CSI: 0.684	B - C 211 -3137 C - D 211 -3136
			VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



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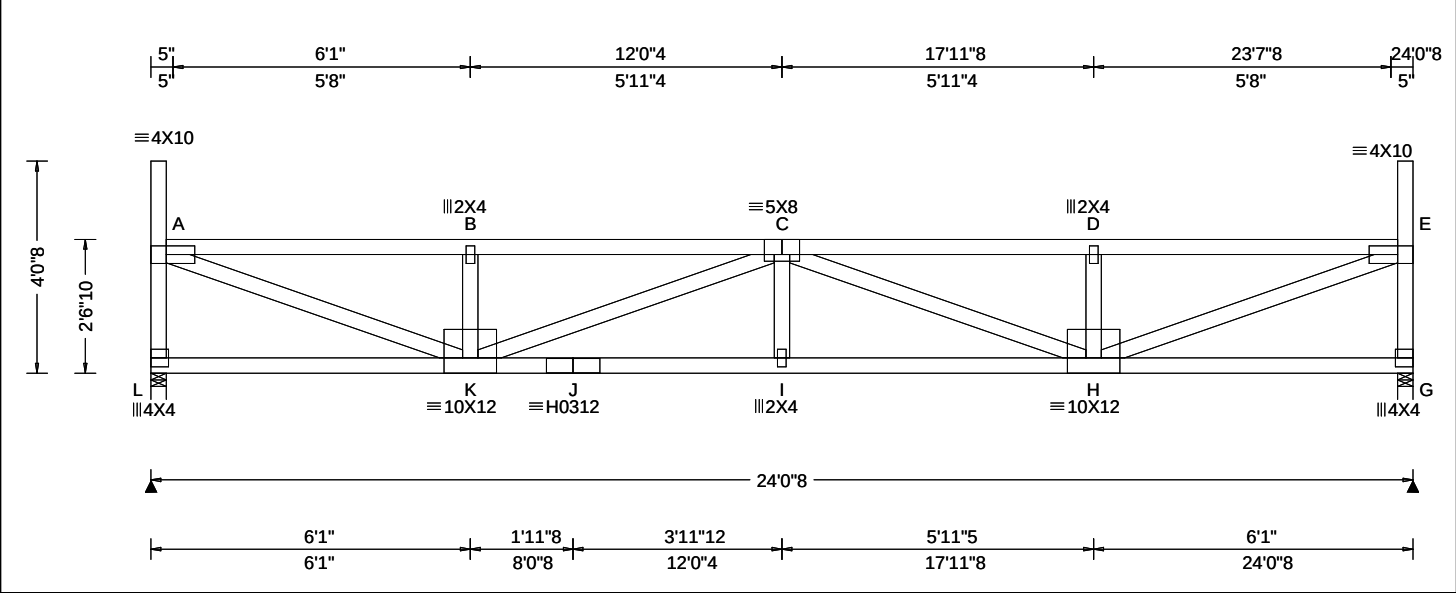
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34852 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T44	Cust: R 9316 JRef:1X1493160006 T202 DrwNo: 119.22.1315.09613 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.260 I 999 360 VERT(CL): 0.445 I 647 240 HORZ(LL): 0.048 A - - HORZ(TL): 0.082 A - - Creep Factor: 2.0 Max TC CSI: 0.642 Max BC CSI: 0.540 Max Web CSI: 0.774 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 - / - / /611 /87 /126 G 1422 - / - / /611 /87 - /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 211 - 3063 C - D 211 - 3057 B - C 211 - 3058 D - E 211 - 3062 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 3947 - 272 I - H 3947 - 272 J - I 3947 - 272 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 102 - 1290 C - H 107 - 952 A - K 3153 - 209 H - E 3152 - 210 B - K 79 - 383 D - H 80 - 384 K - C 110 - 951 E - G 102 - 1290

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.49 18.65 4.50
23.75 0.00 23.46 1.49 18.65 4.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.19". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

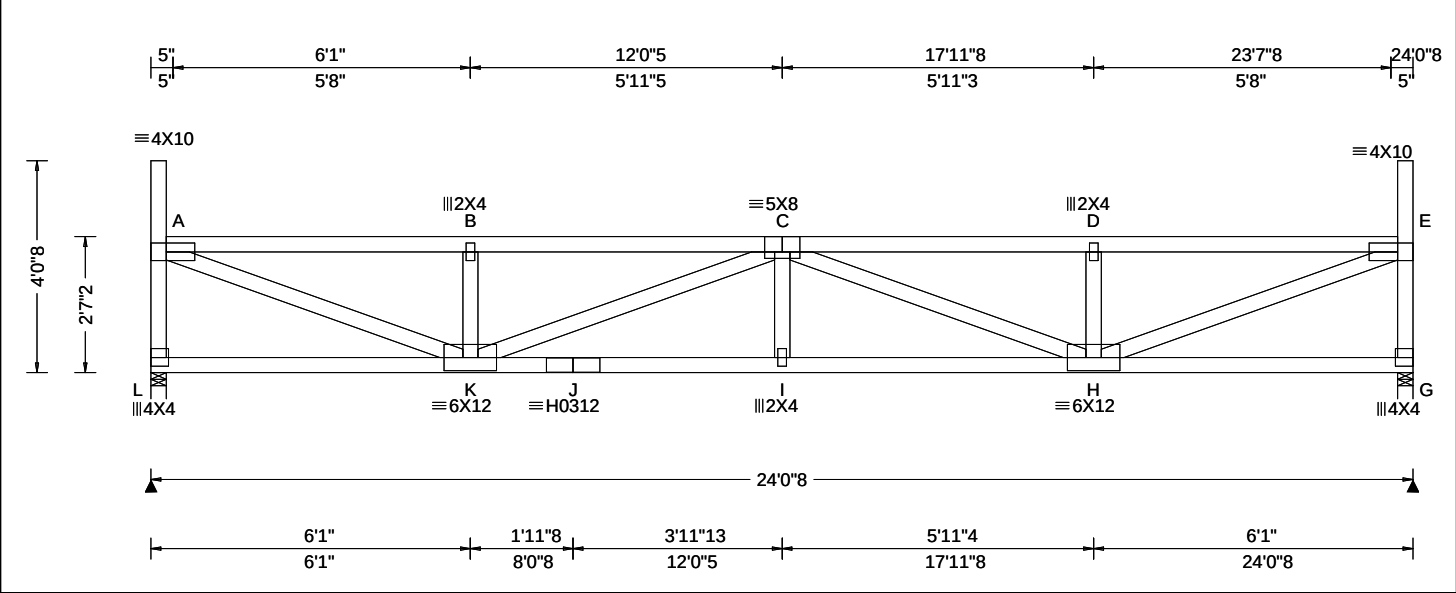
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34853 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T45	Cust: R 9316 JRef:1X1493160006 T196 DrwNo: 119.22.1315.11443 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.251 I 999 360 VERT(CL): 0.430 I 670 240 HORZ(LL): 0.047 A - - HORZ(TL): 0.081 A - - Creep Factor: 2.0 Max TC CSI: 0.628 Max BC CSI: 0.535 Max Web CSI: 0.762 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1422 /- /- /611 /87 /125 G 1422 /- /- /611 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 208 -3009 C - D 207 -3003 B - C 208 -3004 D - E 208 -3008

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 3876 -269 I - H 3876 -269 J - I 3876 -269
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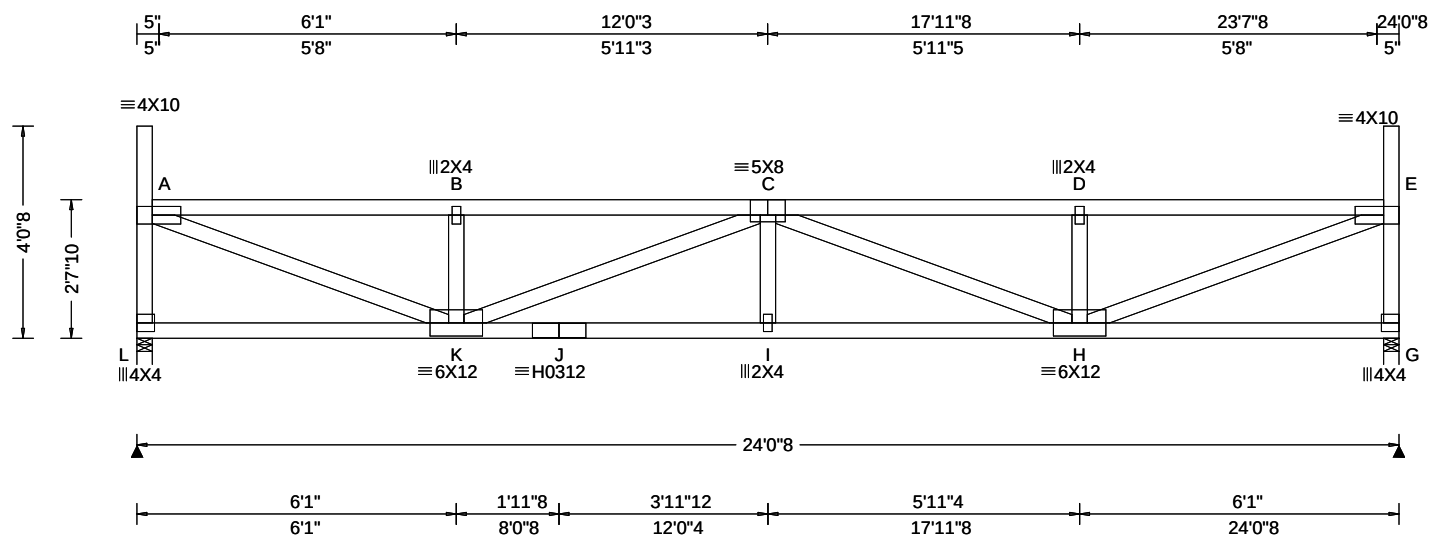
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.45 17.27 4.16 23.75 0.00 23.46 1.45 17.27 4.16 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 102 -1290 C - H 105 -937 A - K 3104 -206 D - H 80 -385 B - K 80 -385 H - E 3102 -207 K - C 108 -935 E - G 102 -1290
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Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	Deflection Max JT VERT DEFL: LL: 0.25" DL: 0.18". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.	
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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 34854	FLAT	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T207
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1315.13107
			Truss Label: T46	/ BAF 04/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.243 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.416 I 692 240	L 1422 /- /- /611 /88 /123
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.046 A - -	G 1422 /- /- /611 /88 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.080 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.30 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 1.8 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.618	G Brg Wid = 3.5 Min Req = 1.8 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.528	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.750	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			A - B 205 - 2956 C - D 204 - 2951
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.17". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

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▲ Maximum Reactions (lbs)

Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
L	1422	/-	/-	/611	/88	/123
G	1422	/-	/-	/611	/88	/-

Wind reactions based on MWFRS

L Brq Wid = 3.5 Min Req = 1.8 (Truss)

G	Brg Wid = 3.5	Min Req = 1.8 (Truss)
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Bearings L & G are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. C
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A - B	205 - 2956	C - D	204 - 2951
B - C	204 - 2951	D - E	205 - 2956

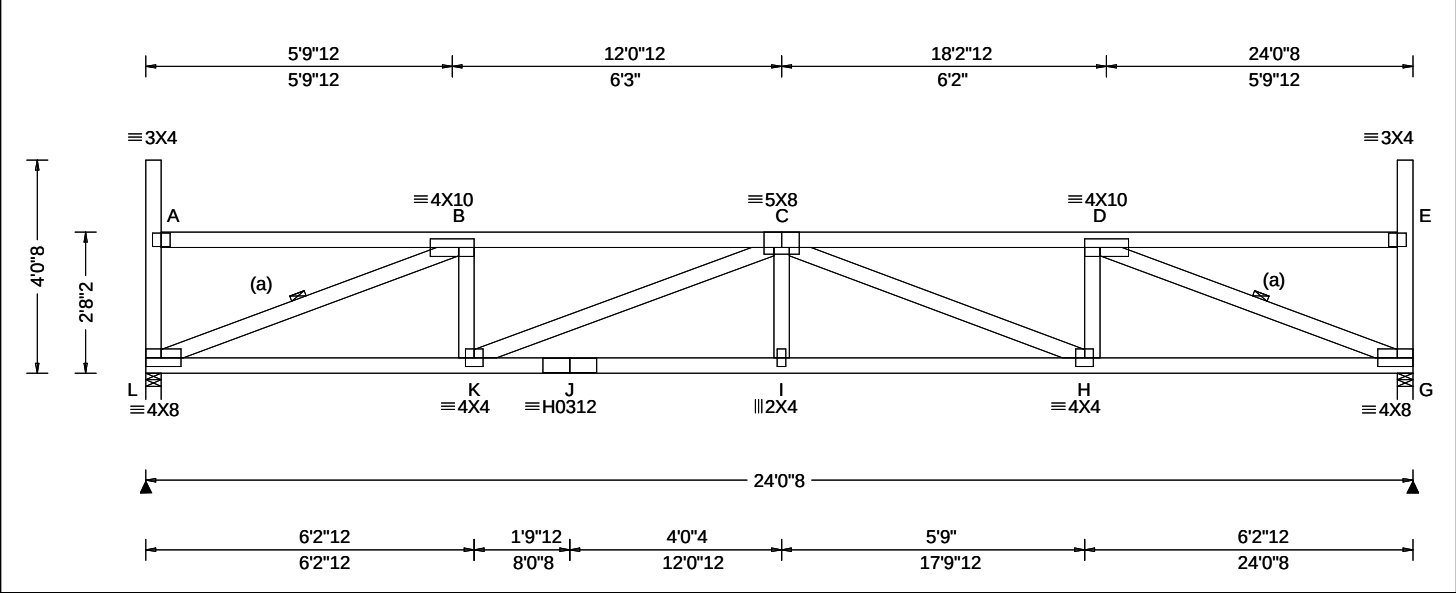
Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
K - J	3808	-265	I - H	3808	-265
J - I	3808	-265			

Maximum Web Forces Per Ply (lbs)

Maximum	Tens.Comp.	Webs	Tens. Comp.
L - A	102 - 1291	C - H	103 - 921
A - K	3055 - 203	H - E	3055 - 203
B - K	80 - 386	D - H	80 - 387
K - C	105 - 921	E - G	102 - 1290

SEQN: 34855 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T47	Cust: R 9316 JRef:1X1493160006 T203 DrwNo: 119.22.1315.14703 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.224 I 999 360 VERT(CL): 0.383 I 752 240 HORZ(LL): 0.058 G - - HORZ(TL): 0.100 G - - Creep Factor: 2.0 Max TC CSI: 0.501 Max BC CSI: 0.534 Max Web CSI: 0.652 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1422 /- /- /611 /88 /122 G 1422 /- /- /611 /88 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 1.8 (Truss) G Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -2923 C - D 199 -2920

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.16". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

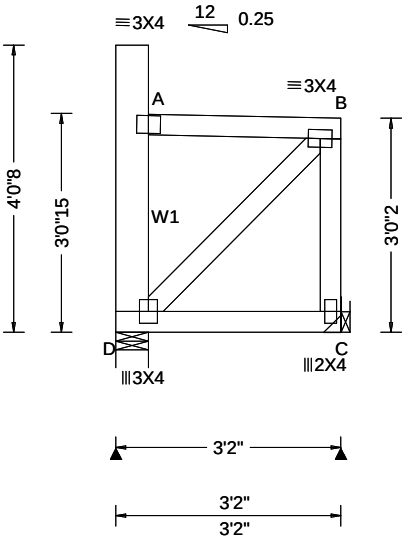
Additional Notes

Truss must be installed as shown with top chord up.



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SEQN: 34941 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48	Cust: R 9316 JRef:1X1493160006 T197 DrwNo: 119.22.1315.16207 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	160	/-	/-	/95	/53	/78
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.001 B 999 240	C	188	/-	/-	/134	/47	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5		Min Req = 1.5 (Truss)			
NCBCLL: 0.00	Mean Height: 22.71 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = -		Min Req = -			
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.139	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.103	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.033							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes
Truss must be installed as shown with top chord up.



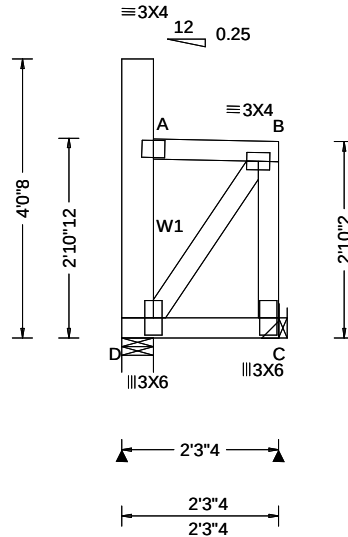
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34857	MONO	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T217
FROM:		Qty: 16	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1315.18983
			Truss Label: T49	/ BAF 04/29/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	D 107 /- /- /87 /78 /80
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	C 133 /- /- /136 /61 /-
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.53 ft	Building Code:	Creep Factor: 2.0	D Brg Wid = 5.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.065	C Brg Wid = - Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.052	Bearing D is a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.042	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.16	7.63

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

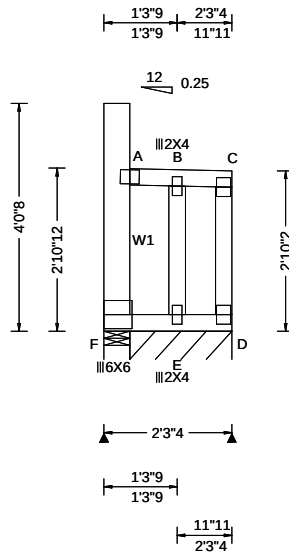
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBCA: sbacocomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 34858	MONO	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T138
FROM:		Qty: 8	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1315.20490
			Truss Label: T50	/ BAF 04/29/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF								
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in	loc	L/defl	L/#	Gravity				Non-Gravity			
TCDL: 15.00	Speed: 109 mph	Pf: 15.4		Ce: 1.0	VERT(LL):	0.007	A	999	360	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL: 15.00	Enclosure: Closed	Lu: -	Cs: 1.00		VERT(CL):	0.009	A	999	240	F	33	/-11	/-	/118	/150	/92
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15			HORZ(LL):	0.124	B	-	-	D*	128	/-	/-	/137	/70	/-
Des Ld: 60.00	EXP: B Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE			HORZ(TL):	0.141	B	-	-	Wind reactions based on MWFRS						
NCBCLL: 0.00	Mean Height: 22.53 ft				Creep Factor: 2.0				F Brg Wid = 5.5 Min Req = 1.5 (Truss)							
Soffit: 2.00	TCDL: 5.0 psf				Max TC CSI: 0.111				D Brg Wid = 21.7 Min Req = -							
Load Duration: 1.15	BCDL: 3.0 psf				Max BC CSI: 0.255				Bearings F & F are a rigid surface.							
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h				Max Web CSI: 0.115				Members not listed have forces less than 375#							
	C&C Dist a: 3.00 ft					VIEW Ver: 21.02.00.1005.17										
	Loc. from endwall: not in 14.50 ft															
	GCpi: 0.18															
	Wind Duration: 1.60															

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Fasten rated sheathing to one face of this frame.

All plates are 3X4 except as noted.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.16	7.63

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



04/29/2022

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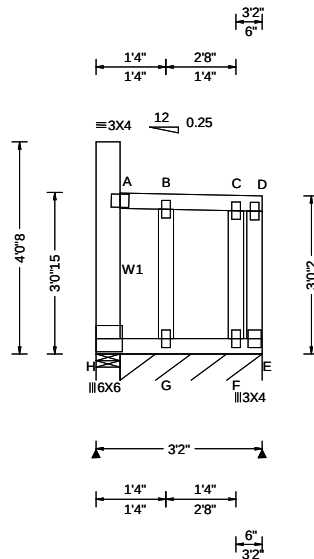
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SEQN: 34859	GABL	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T169
FROM:		Qty: 4	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1315.21903
			Truss Label: T51	/ BAF 04/29/2022



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity		Non-Gravity						
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	Loc	R+	/R-	/Rh	/Rw	/U	/RL		
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.010 A 999 240	H	41	/-	/-	/118	/131	/90		
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.122 C - -	E*	113	/-	/-	/96	/44	/-		
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.143 B - -	Wind reactions based on MWFRS								
NCBCLL: 0.00	Mean Height: 22.71 ft	Building Code:	Creep Factor: 2.0	H Brg Wid = 5.5 Min Req = 1.5 (Truss)								
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.105	E Brg Wid = 32.5 Min Req = -								
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.293	Bearings H & H are a rigid surface.								
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.131	Members not listed have forces less than 375#								
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)										
	Loc. from endwall: Any	Plate Type(s):										
	GCpi: 0.18											
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17									

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Fasten rated sheathing to one face of this frame.

All plates are 2X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



04/29/2022

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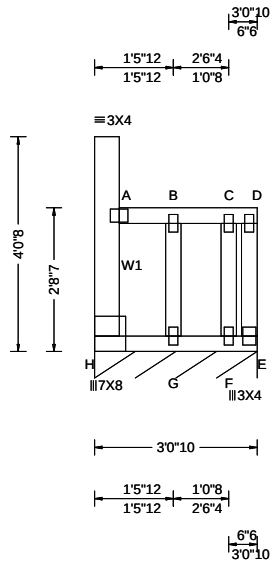
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34860	GABL	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T132
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1315.23363
			Truss Label: T52	/ BAF 04/29/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF							
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in	loc L/defl	L/#	Gravity			Non-Gravity				
TCDL: 15.00	Speed: 109 mph	Pf: 15.4		Ce: 1.0	VERT(LL):	0.007 A	999	360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00	Enclosure: Closed	Lu: -	Cs: 1.00		VERT(CL):	0.009 A	999	240	E*	109	/-	/-	/46	/5	/30
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15			HORZ(LL):	0.115 A	-	-	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA	Building Code:			HORZ(TL):	0.134 A	-	-	E Brg Wid = 36.6 Min Req = -						
NCBCLL: 0.00	Mean Height: 22.37 ft	IBC 2018			Creep Factor: 2.0		Members not listed have forces less than 375#								
Soffit: 2.00	TCDL: 5.0 psf	TPI Std: 2014			Max TC CSI:	0.115									
Load Duration: 1.15	BCDL: 3.0 psf	Rep Fac: Yes			Max BC CSI:	0.323									
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)			Max Web CSI:	0.142									
	C&C Dist a: 3.00 ft	Plate Type(s):													
	Loc. from endwall: Any	WAVE													
	GCp: 0.18														
	Wind Duration: 1.60				VIEW Ver: 21.02.00.1005.17										

2007-2011
FOURTH TERM

[Signature]

MD COA 2007-2011

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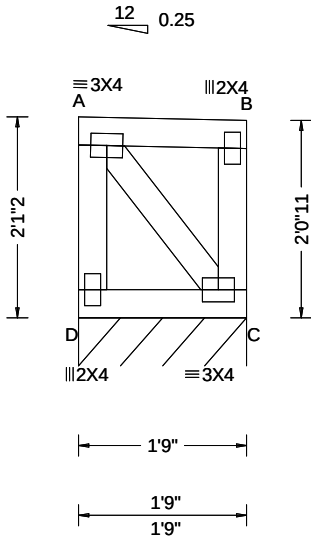
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Building 8

SEQN: 34861 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE01	Cust: R 9316 JRef:1X1493160006 T188 DrwNo: 119.22.1303.39035 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.032 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 21.0 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

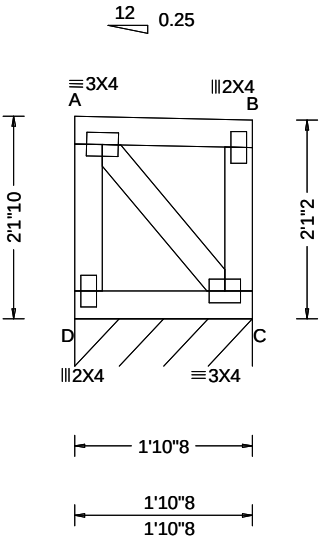
Truss must be installed as shown with top chord up.



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Building 8

SEQN: 34862 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE02	Cust: R 9316 JRef:1X1493160006 T189 DrwNo: 119.22.1303.38673 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.12 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.022 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/18
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

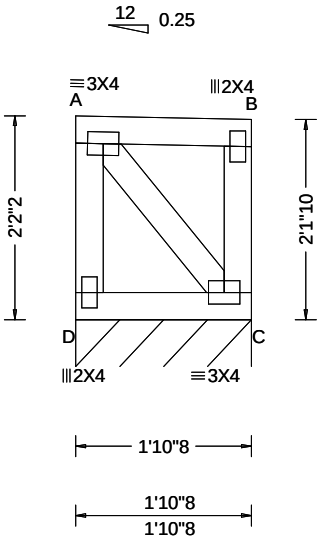


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Building 8

SEQN: 34863 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE03	Cust: R 9316 JRef:1X1493160006 T190 DrwNo: 119.22.1303.39008 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.16 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.023 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

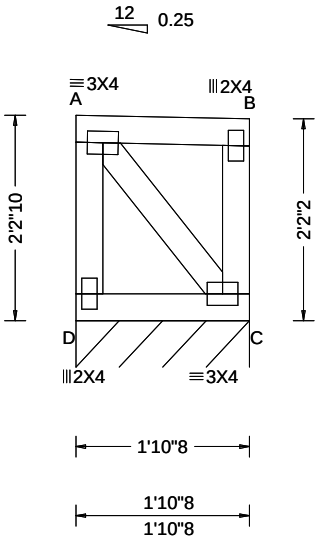
Truss must be installed as shown with top chord up.



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SEQN: 34864 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE04	Cust: R 9316 JRef:1X1493160006 T192 DrwNo: 119.22.1303.38970 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

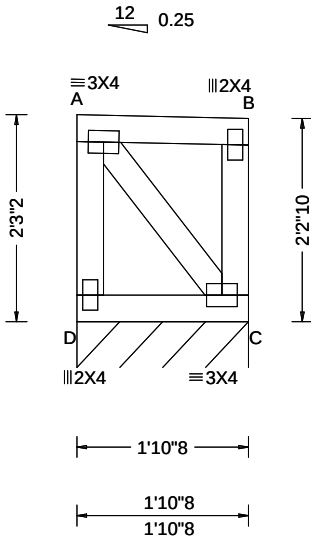
Truss must be installed as shown with top chord up.



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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Building 8

SEQN: 34865 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE05	Cust: R 9316 JRef:1X1493160006 T215 DrwNo: 119.22.1303.38288 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

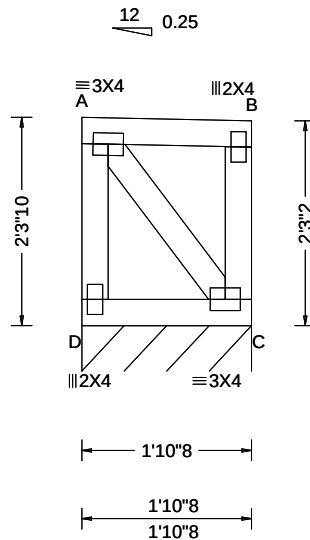
Truss must be installed as shown with top chord up.



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SEQN: 34866 /	MONO	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef: 1Xf493160006 T219
FROM:		Qty: 8	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1303.37957
			Truss Label: TGE06	/ NDW 04/29/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *-PLF						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in	loc L/def L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL):	0.000 A 999 360	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL):	0.000 A 999 240	C*	120	/-	/-	/51	/5	/20
BCDL:	10.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL):	0.000 B - -	Wind reactions based on MWFRS						
Des Ld:	60.00	EXP:	B Kzt: NA			HORZ(TL):	0.000 B - -	C Brg Wid = 22.5 Min Req = -						
NCBCLL:	0.00	Mean Height:	21.28 ft	Building Code:		Creep Factor: 2.0		Bearing D is a rigid surface.						
Soffit:	2.00	TCDL:	5.0 psf	IBC 2018		Max TC CSI: 0.053		Members not listed have forces less than 375#						
Load Duration:	1.15	BCDL:	3.0 psf	TPI Std: 2014		Max BC CSI: 0.038								
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2	Rep Fac: Yes		Max Web CSI: 0.026								
		C&C Dist a:	3.00 ft	FT/RT:20(0)/10(0)										
		Loc. from endwall:	Any	Plate Type(s):										
		GCp:	0.18											
		Wind Duration:	1.60	WAVE		VIEW Ver: 21.02.00.1005.17								

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Truss must be installed as shown with top chord up.



04/29/2022

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

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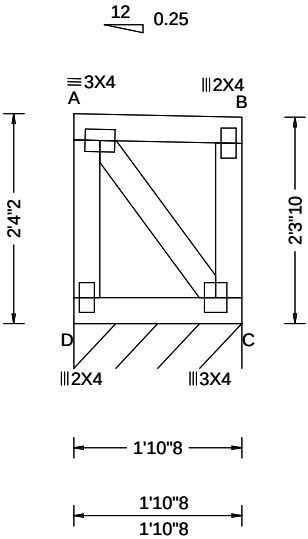
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ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34867 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE07	Cust: R 9316 JRef:1X1493160006 T220 DrwNo: 119.22.1303.38498 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.32 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.027 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



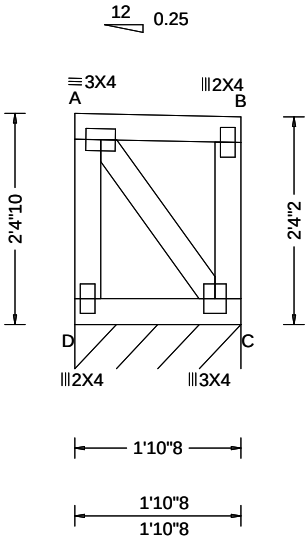
04/29/2022

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Building 8

SEQN: 34868 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE08	Cust: R 9316 JRef:1Xf493160006 T221 DrwNo: 119.22.1303.38480 / NDW 04/29/2022
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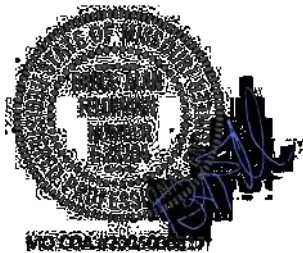


Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

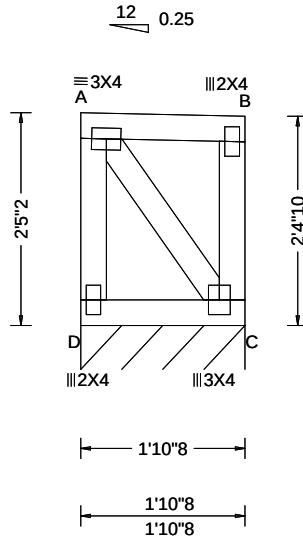
Additional Notes
Truss must be installed as shown with top chord up.



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SEQN: 34869 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE09	Cust: R 9316 JRef: 1X1493160006 T222 DrwNo: 119.22.1303.38548 / NDW 04/29/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *-PLF						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in	loc L/def L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL):	0.000 A 999 360	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL):	0.000 A 999 240	C*	120	/-	/-	/51	/5	/22
BCDL:	10.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL):	0.000 B - -	Wind reactions based on MWFRS						
Des Ld:	60.00	EXP:	B Kzt: NA			HORZ(TL):	0.000 B - -	C Brg Wid = 22.5 Min Req = -						
NCBCLL:	0.00	Mean Height:	21.41 ft	Building Code:		Creep Factor: 2.0		Bearing D is a rigid surface.						
Soffit:	2.00	TCDL:	5.0 psf	IBC 2018		Max TC CSI: 0.053		Members not listed have forces less than 375#						
Load Duration:	1.15	BCDL:	3.0 psf	TPI Std: 2014		Max BC CSI: 0.038								
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2	Rep Fac: Yes		Max Web CSI: 0.029								
		C&C Dist a:	3.00 ft	FT/RT:20(0)/10(0)										
		Loc. from endwall:	Any	Plate Type(s):										
		GCpt:	0.18											
		Wind Duration:	1.60	WAVE		VIEW Ver: 21.02.00.1005.17								

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Truss must be installed as shown with top chord up.



04/29/2022

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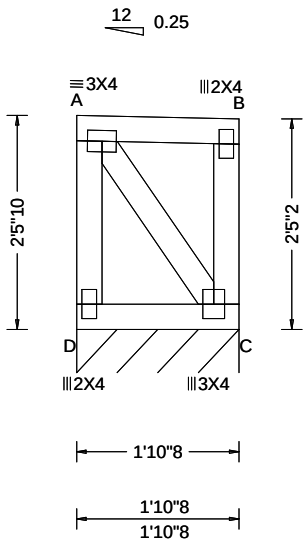
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34870 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE10	Cust: R 9316 JRef:1X1493160006 T223 DrwNo: 119.22.1303.38610 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.45 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.031 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

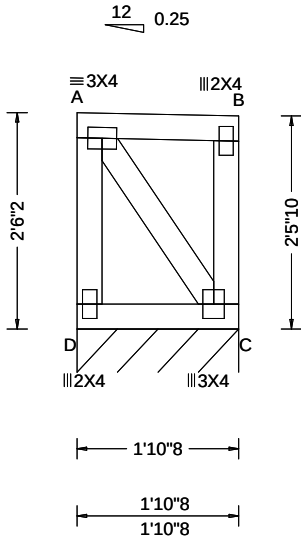
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34871 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE11	Cust: R 9316 JRef:1X1493160006 T224 DrwNo: 119.22.1303.38831 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.49 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.032 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

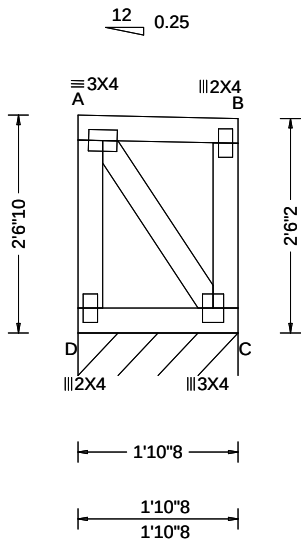


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Building 8

SEQN: 34872 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE12	Cust: R 9316 JRef:1X1493160006 T225 DrwNo: 119.22.1303.38286 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

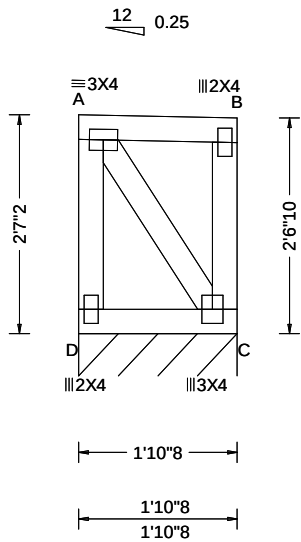
Additional Notes

Truss must be installed as shown with top chord up.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com ; TPI: tpinst.org ; SBCA: sbccomponents.com ; ICC: iccsafe.org ; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 34873 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE13	Cust: R 9316 JRef:1X1493160006 T226 DrwNo: 119.22.1303.38382 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

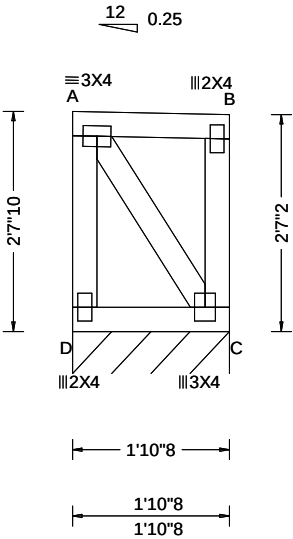


04/29/2022

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SEQN: 34874 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE14	Cust: R 9316 JRef:1X1493160006 T227 DrwNo: 119.22.1303.38037 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.036 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



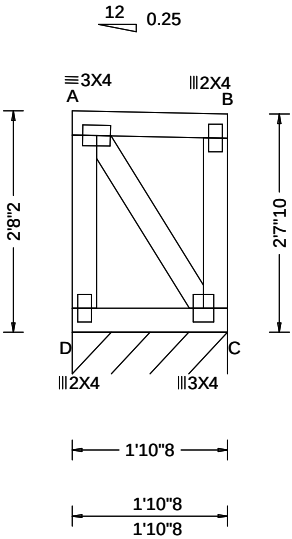
04/29/2022

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Building 8

SEQN: 34875 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE15	Cust: R 9316 JRef:1Xf493160006 T228 DrwNo: 119.22.1303.38790 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.037 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

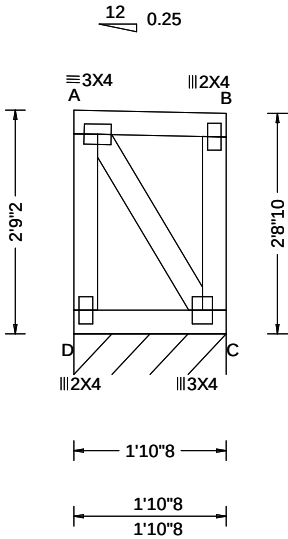
Truss must be installed as shown with top chord up.



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Building 8

SEQN: 34876 / FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE16	Cust: R 9316 JRef:1X1493160006 T251 DrwNo: 119.22.1303.37949 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

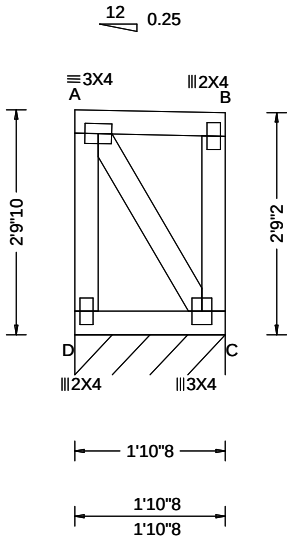


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Building 8

SEQN: 34877 / FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE17	Cust: R 9316 JRef:1X1493160006 T252 DrwNo: 119.22.1303.38031 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/26
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

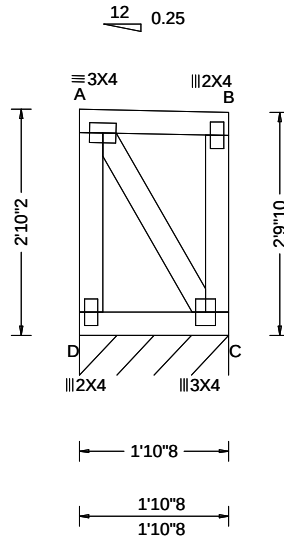
Truss must be installed as shown with top chord up.



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SEQN: 34878 / FROM:	MONO Qty: 7	Job Number: JB-220688 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE18	Cust: R 9316 JRef: 1Xf493160006 T253 DrwNo: 119.22.1303.37969 / NDW 04/29/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *-PLF						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in	loc L/def L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL):	0.000 A 999 360	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL):	0.000 A 999 240	C*	120	/-	/-	/51	/6	/26
BCDL:	10.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL):	0.000 B - -	Wind reactions based on MWFRS						
Des Ld:	60.00	EXP:	B Kzt: NA			HORZ(TL):	0.001 B - -	C Brg Wid = 22.5 Min Req = -						
NCBCLL:	0.00	Mean Height:	21.82 ft	Building Code:		Creep Factor: 2.0		Bearing D is a rigid surface.						
Soffit:	2.00	TCDL:	5.0 psf	IBC 2018		Max TC CSI: 0.053		Members not listed have forces less than 375#						
Load Duration:	1.15	BCDL:	3.0 psf	TPI Std: 2014		Max BC CSI: 0.038								
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2	Rep Fac: Yes		Max Web CSI: 0.042								
		C&C Dist a:	3.00 ft	FT/RT:20(0)/10(0)										
		Loc. from endwall:	Any	Plate Type(s):										
		GCpi:	0.18											
		Wind Duration:	1.60	WAVE		VIEW Ver: 21.02.00.1005.17								

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Truss must be installed as shown with top chord up.



04/29/2022

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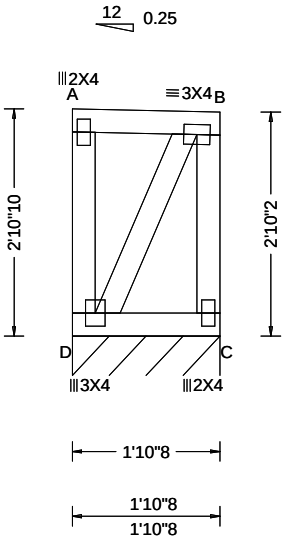
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 8

SEQN: 34879 FROM:	MONO Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE19	Cust: R 9316 JRef:1X1493160006 T254 DrwNo: 119.22.1315.24817 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.043 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/27
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

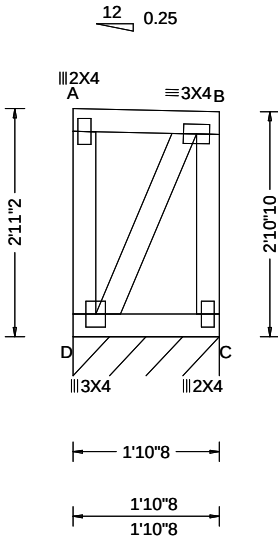


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Building 8

SEQN: 34880 FROM:	MONO Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE20	Cust: R 9316 JRef:1X1493160006 T255 DrwNo: 119.22.1315.26260 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.044 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/28
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



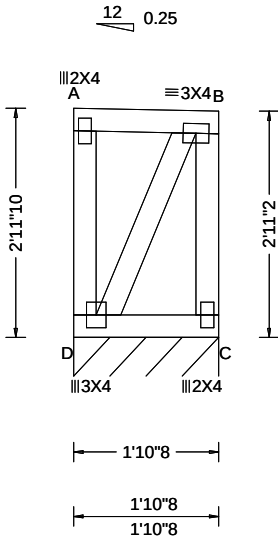
04/29/2022

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Building 8

SEQN: 34947 FROM:	MONO Qty: 1	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE21	Cust: R 9316 JRef:1X1493160006 T256 DrwNo: 119.22.1315.27633 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.046 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/28
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

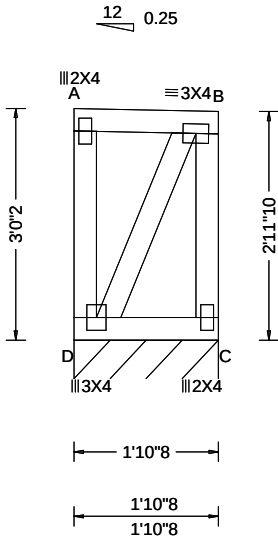


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Building 8

SEQN: 34950 FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE22	Cust: R 9316 JRef:1X1493160006 T257 DrwNo: 119.22.1315.29143 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.047 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/29
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



04/29/2022

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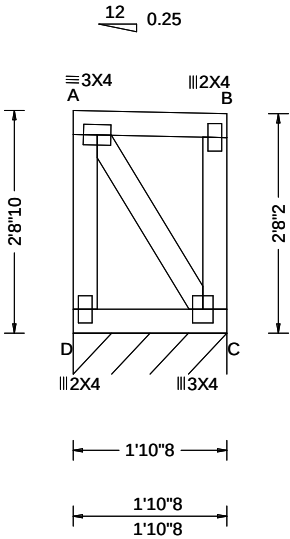
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34883 / FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE23	Cust: R 9316 JRef:1Xf493160006 T231 DrwNo: 119.22.1303.38644 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.038 Max Web CSI: 0.038 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	120	/-	/-	/51	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

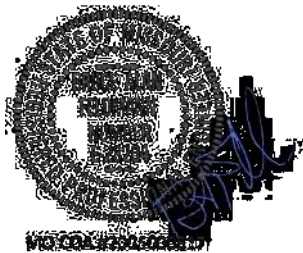
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

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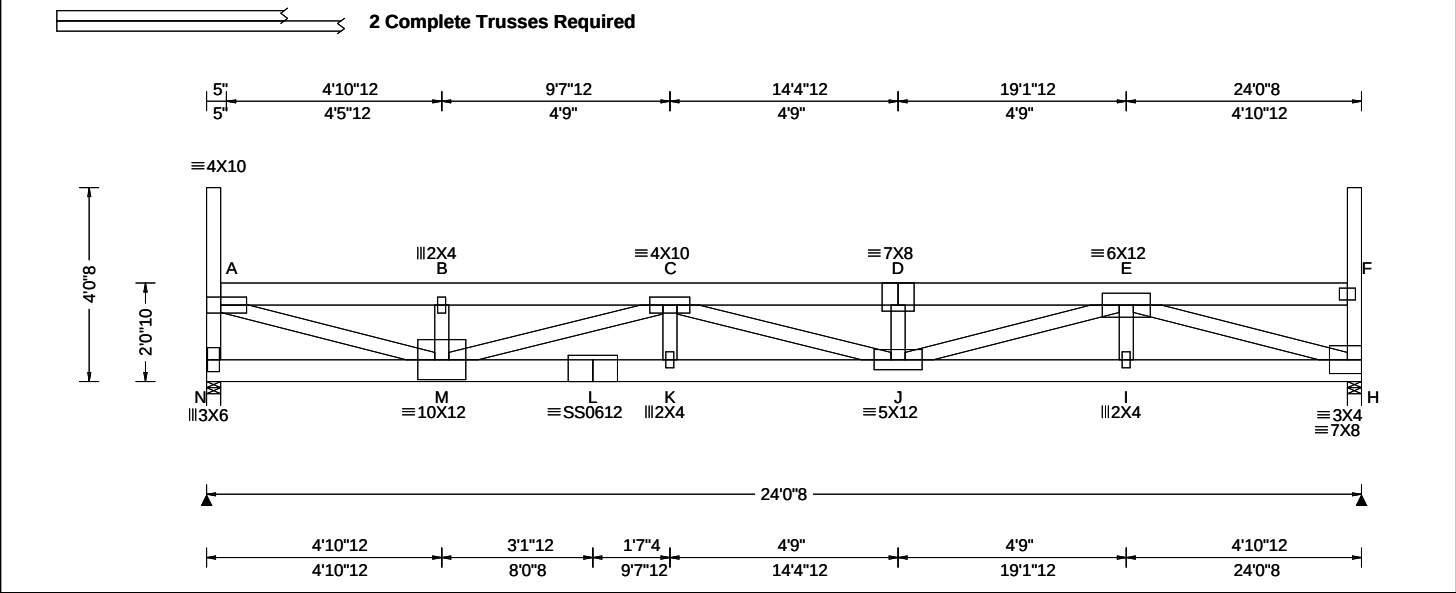
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34953 FROM:	FLAT Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T32	Cust: R 9316 JRef:1X1493160006 T7 DrwNo: 119.22.1314.47673 / BAF 04/29/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.259 D 999 360 VERT(CL): 0.443 D 650 240 HORZ(LL): 0.039 H - - HORZ(TL): 0.067 H - - Creep Factor: 2.0 Max TC CSI: 0.204 Max BC CSI: 0.595 Max Web CSI: 0.824 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs) <table><tr><th colspan="3">Gravity</th><th colspan="3">Non-Gravity</th></tr><tr><th>Loc</th><th>R+ / R-</th><th>/ Rh</th><th>/ Rw</th><th>/ U</th><th>/ RL</th></tr><tr><td>N</td><td>2310</td><td>-/-</td><td>-/-</td><td>-/-</td><td>/412 -/-</td></tr><tr><td>H</td><td>2290</td><td>-/-</td><td>-/-</td><td>-/-</td><td>/396 -/-</td></tr></table> Wind reactions based on MWFRS N Brg Wid = 3.5 Min Req = 1.8 (Truss) H Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>A - B</td><td>535 -2942</td><td>C - D</td><td>777 -4299</td></tr><tr><td>B - C</td><td>534 -2935</td><td>D - E</td><td>777 -4299</td></tr></table>						Gravity			Non-Gravity			Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	N	2310	-/-	-/-	-/-	/412 -/-	H	2290	-/-	-/-	-/-	/396 -/-	Chords	Tens.Comp.	Chords	Tens. Comp.	A - B	535 -2942	C - D	777 -4299	B - C	534 -2935	D - E	777 -4299
	Gravity			Non-Gravity																																									
	Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL																																							
	N	2310	-/-	-/-	-/-	/412 -/-																																							
	H	2290	-/-	-/-	-/-	/396 -/-																																							
	Chords	Tens.Comp.	Chords	Tens. Comp.																																									
	A - B	535 -2942	C - D	777 -4299																																									
	B - C	534 -2935	D - E	777 -4299																																									

Lumber Top chord: 2x6 SPF 1650f-1.5E; Bot chord: 2x6 SPF 1650f-1.5E; Webs: 2x4 SPF #1/#2; Nailnote Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @11.25" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting. Special Loads ----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 70 plf at 0.29 to 70 plf at 23.75 BC: From 50 plf at 0.00 to 50 plf at 24.04 BC: 160 lb Conc. Load at 1.90, 3.90, 7.90, 9.90 11.90,13.90,21.90 BC: 158 lb Conc. Load at 5.90,15.90,17.90,19.90	Deflection Max JT VERT DEFL: LL: 0.26" DL: 0.18". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof. Additional Notes Truss must be installed as shown with top chord up.	<table><tr><th colspan="6">Maximum Bot Chord Forces Per Ply (lbs)</th></tr><tr><th>Chords</th><th colspan="2">Tens.Comp.</th><th>Chords</th><th colspan="2">Tens. Comp.</th></tr><tr><td>M - L</td><td>4300</td><td>- 783</td><td>J - I</td><td>2918</td><td>- 520</td></tr><tr><td>L - K</td><td>4300</td><td>- 783</td><td>I - H</td><td>2918</td><td>- 520</td></tr><tr><td>K - J</td><td>4300</td><td>- 783</td><td></td><td></td><td></td></tr></table> <table><tr><th colspan="6">Maximum Web Forces Per Ply (lbs)</th></tr><tr><th>Webs</th><th colspan="2">Tens.Comp.</th><th>Webs</th><th colspan="2">Tens. Comp.</th></tr><tr><td>N - A</td><td>180</td><td>- 1037</td><td>J - E</td><td>1456</td><td>- 271</td></tr><tr><td>A - M</td><td>2963</td><td>- 540</td><td>E - H</td><td>540</td><td>- 3028</td></tr><tr><td>M - C</td><td>263</td><td>- 1440</td><td></td><td></td><td></td></tr></table>	Maximum Bot Chord Forces Per Ply (lbs)						Chords	Tens.Comp.		Chords	Tens. Comp.		M - L	4300	- 783	J - I	2918	- 520	L - K	4300	- 783	I - H	2918	- 520	K - J	4300	- 783				Maximum Web Forces Per Ply (lbs)						Webs	Tens.Comp.		Webs	Tens. Comp.		N - A	180	- 1037	J - E	1456	- 271	A - M	2963	- 540	E - H	540	- 3028	M - C	263	- 1440			
Maximum Bot Chord Forces Per Ply (lbs)																																																														
Chords	Tens.Comp.		Chords	Tens. Comp.																																																										
M - L	4300	- 783	J - I	2918	- 520																																																									
L - K	4300	- 783	I - H	2918	- 520																																																									
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Webs	Tens.Comp.		Webs	Tens. Comp.																																																										
N - A	180	- 1037	J - E	1456	- 271																																																									
A - M	2963	- 540	E - H	540	- 3028																																																									
M - C	263	- 1440																																																												

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.99 34.38 4.14
23.75 0.00 23.46 1.99 34.38 4.14
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.



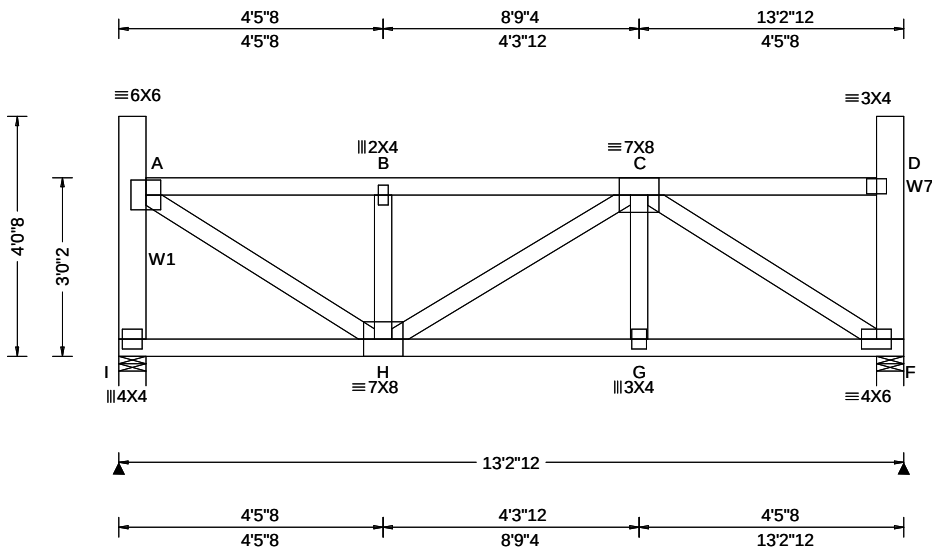
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34917 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T09	Cust: R 9316 JRef:1X1493160006 T14 DrwNo: 119.22.1314.07263 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.037 G 999 360 VERT(CL): 0.063 G 999 240 HORZ(LL): 0.013 F - - HORZ(TL): 0.022 F - - Creep Factor: 2.0 Max TC CSI: 0.276 Max BC CSI: 0.790 Max Web CSI: 0.693 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 1196 /- /- /- /170 /- F 1119 /- /- /- /144 /- Wind reactions based on MWFRS I Brg Wid = 5.5 Min Req = 1.9 (Truss) F Brg Wid = 5.5 Min Req = 1.8 (Truss) Bearings I & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 202 -1470 B - C 201 -1465

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 25 plf at 0.00 to 25 plf at 13.23
BC: 188 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 186 lb Conc. Load at 7.17, 9.17

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

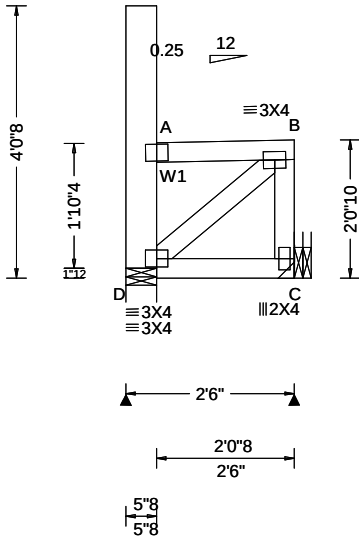


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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 8

SEQN: 34905 FROM:	MONO Ply: 1 Qty: 17	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02A	Cust: R 9316 JRef:1X1493160006 T13 DrwNo: 119.22.1313.49987 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	113	/-	/-	/90	/76	/62
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	158	/-	/-	/132	/56	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Support)					
NCBCLL: 0.00	Mean Height: 21.70 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = - Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.102	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.066	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.106							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

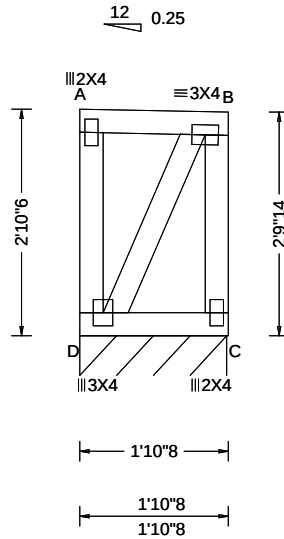
Truss must be installed as shown with top chord up.



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SEQN: 34908	MONO	Ply: 1	Job Number: JB-220688	Cust: R 9316 JRef:1Xf493160006 T12
FROM:		Qty: 1	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 119.22.1315.33037
			Truss Label: TGE22A	/ BAF 04/29/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or * = PLF						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in	loc L/def L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL):	0.000 A 999 360	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL):	0.000 A 999 240	D*	121	/-	/-	/51	/6	/27
BCDL:	10.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL):	-0.000 A - -	Wind reactions based on MWFRS						
Des Ld:	60.00	EXP:	B Kzt: NA			HORZ(TL):	0.001 A - -	D Brg Wid = 22.3 Min Req = -						
NCBCLL:	0.00	Mean Height:	22.66 ft	Building Code:		Creep Factor: 2.0		Bearing D is a rigid surface.						
Soffit:	2.00	TCDL:	5.0 psf	IBC 2018		Max TC CSI: 0.053		Members not listed have forces less than 375#						
Load Duration:	1.15	BCDL:	3.0 psf	TPI Std: 2014		Max BC CSI: 0.038								
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2	Rep Fac: Yes		Max Web CSI: 0.042								
		C&C Dist a:	3.00 ft	FT/RT:20(0)/10(0)										
		Loc. from endwall:	Any	Plate Type(s):										
		GCpt:	0.18											
		Wind Duration:	1.60	WAVE		VIEW Ver: 21.02.00.1005.17								

Truss must be installed as shown with top chord up.



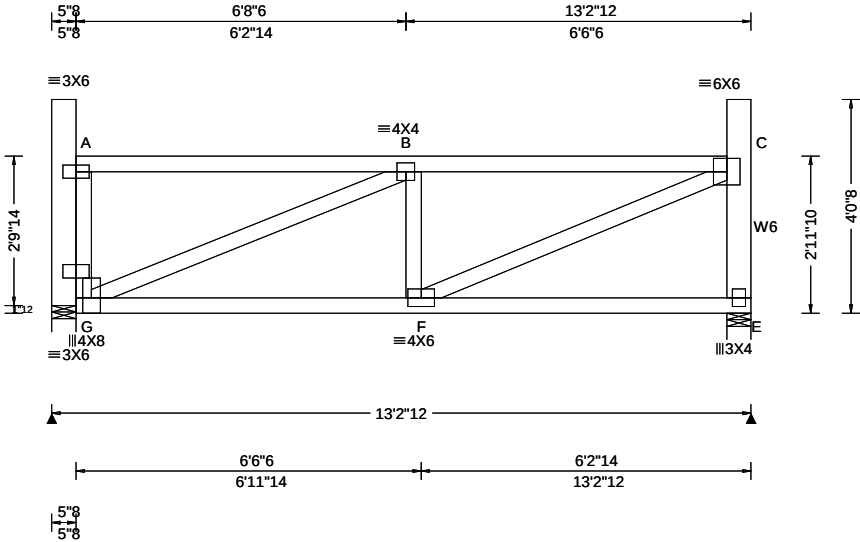
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34911 FROM:	MONO Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08A	Cust: R 9316 JRef:1X1493160006 T11 DrwNo: 119.22.1314.05753 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 10.00 Des Ld: 60.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.036 B 999 360 VERT(CL): 0.062 B 999 240 HORZ(LL): 0.007 E - - HORZ(TL): 0.012 E - - Creep Factor: 2.0 Max TC CSI: 0.709 Max BC CSI: 0.759 Max Web CSI: 0.928 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL G 759 /- /- /339 /61 /116 E 741 /- /- /330 /56 /- Non-Gravity Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 98 - 1104

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W6 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11823.35" if used)

Additional Notes

WARNING! Reaction exceeds allowable
Truss must be installed as shown with top chord up.

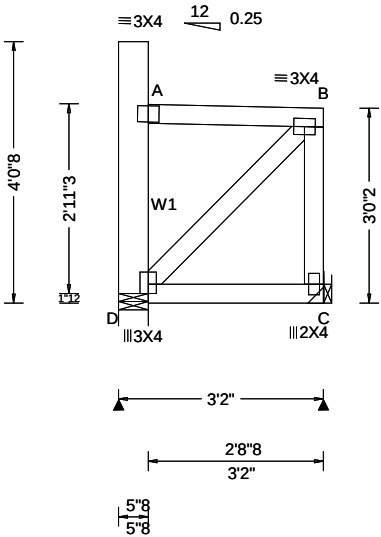


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Building 8

SEQN: 34914 FROM:	MONO Ply: 1 Qty: 4	Job Number: JB-220688 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48A	Cust: R 9316 JRef:1X1493160006 T8 DrwNo: 119.22.1315.17613 / BAF 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	139	/-	/-	/81	/43	/34
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	186	/-	/-	/113	/33	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 60.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Support)					
NCBCLL: 0.00	Mean Height: 22.71 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = - Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.139	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.109	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.028							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

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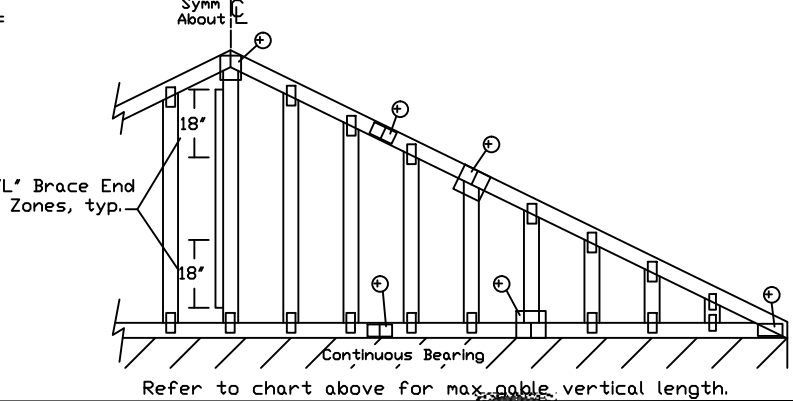
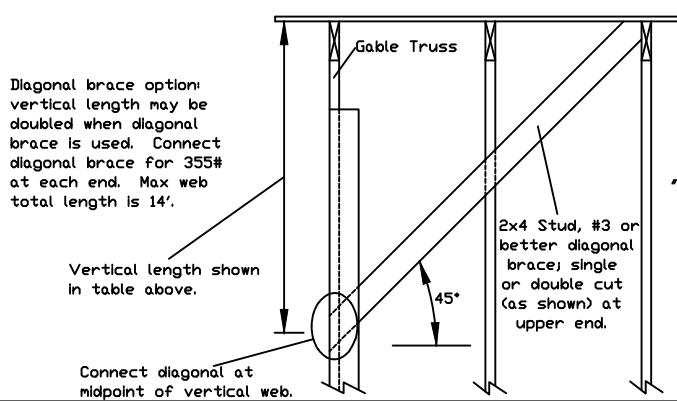
Gable Stud Reinforcement Detail
ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.		SPF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
		DFL	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.		SPF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		DFL	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.		SPF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:									
Group A:									
Spruce-Pine-Fir					Hem-Fir				
#1 / #2	Standard	#2	Stud		#2	Stud			
#3	Stud	#3	Stud		#3	Stud			
Douglas Fir-Larch					Southern Pine***				
#3		#3			#3				
Stud		Stud			Stud				
Standard		Standard			Standard				
Group B:									
Hem-Fir									
#1 & Btr		#1							
#1									
Douglas Fir-Larch					Southern Pine***				
#1		#1			#1				
#2		#2			#2				

1x4 Braces shall be SRB (Stress-Rated Board).
***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:
Wind Load deflection criterion is L/240.
Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.



Attach 'L' braces with 10d (0.128"x3.0" min) nails.
* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
** For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.
'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.



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ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



REF	ASCE7-16-GAB11530
DATE	01/26/2018
DRWG	A11530ENC160118
MAX. TOT. LD. 60 PSF	
MAX. SPACING 24.0"	

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

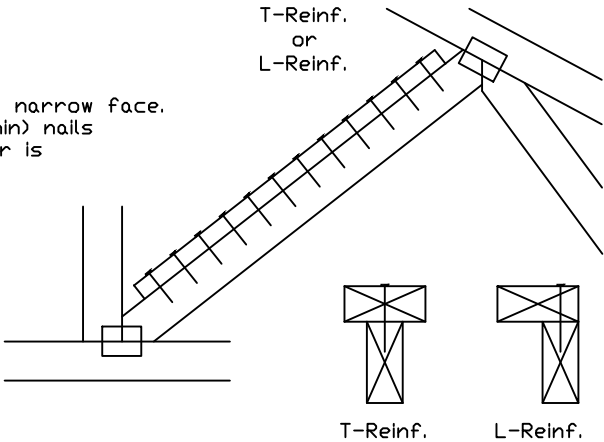
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf. Scab Reinf.	
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

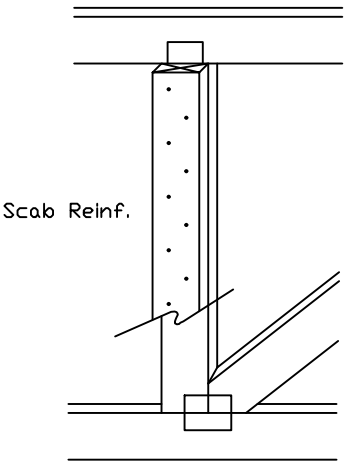
T-Reinforcement
or
L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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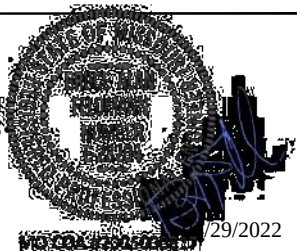
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TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

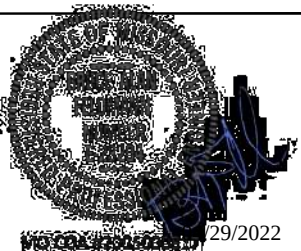
Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

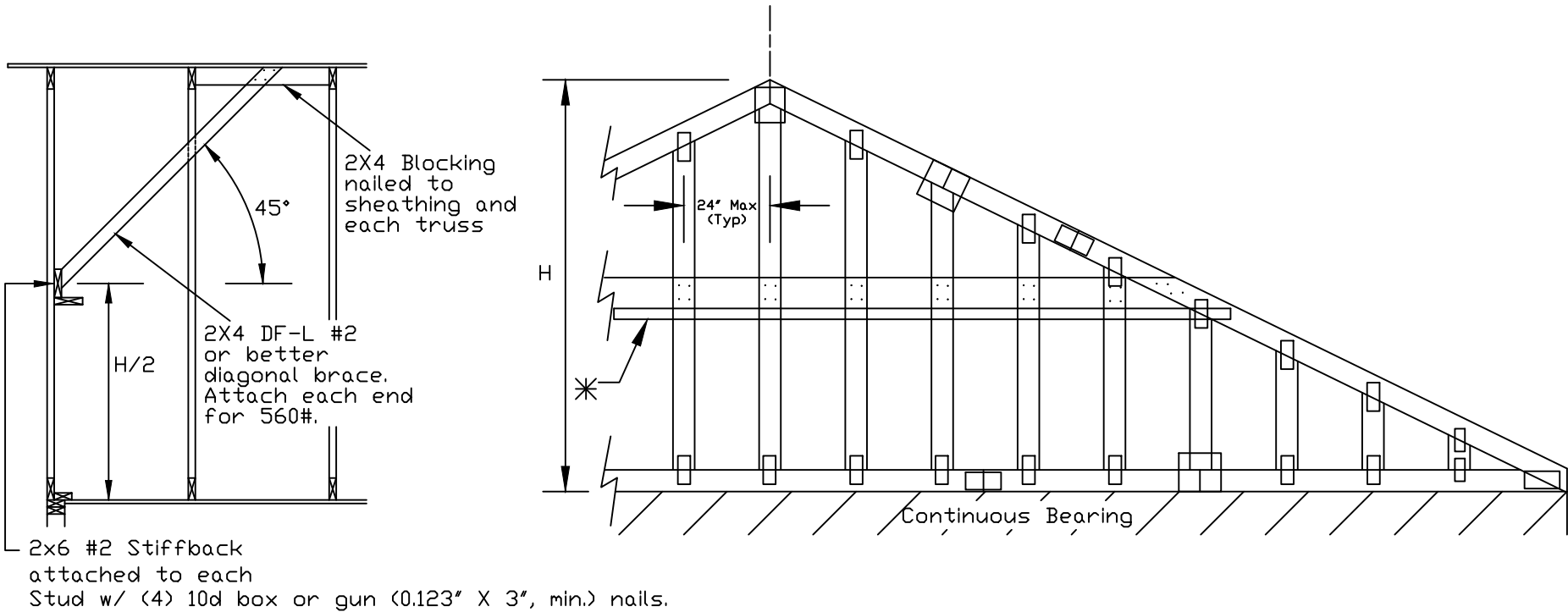
120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail
for lumber, plates, and other information not shown
on this detail.

Nails: 10d box or gun (0.128"x3",min) nails.

- H Less than 4'6" - no stud bracing required
- H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback
to roof diaphragm every 6'0" (see detail below or
refer to DRWG A12030ENC160118).
- H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace
to roof diaphragm every 4'0" (see detail below or
refer to DRWG A12030ENC160118).
- * Optional 2x L-reinforcement attached
to stiffback with 10d box or gun
(0.128" x 3", min.) nails @ 6" o.c.



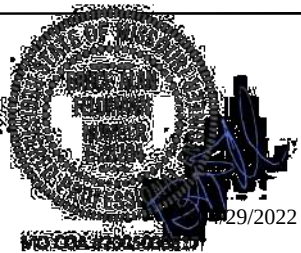
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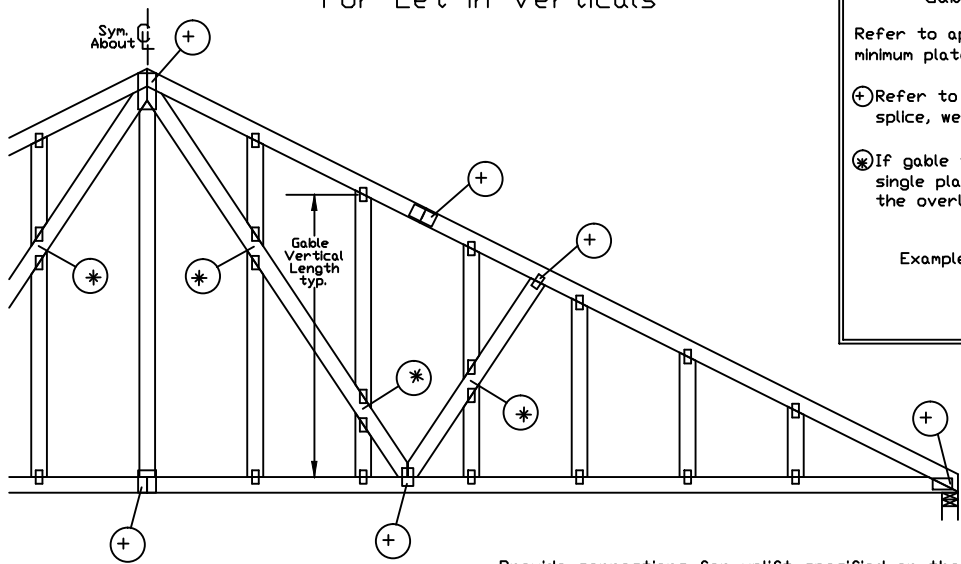
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MAX. TOT. LD. 60 PSF
MAX. SPACING

REF GE WHALER
DATE 01/02/2018
DRWG GABRST160118

Gable Detail For Let-in Verticals



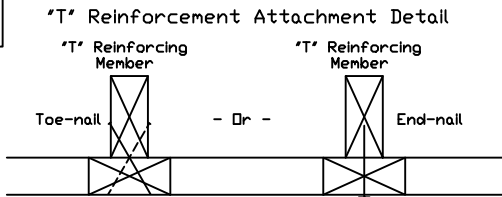
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148"x 3",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

- ASCE 7-05 Gable Detail Drawings
- A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014
- ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
- A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.

To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

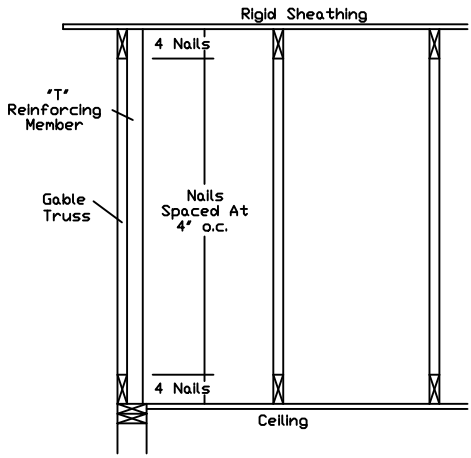
"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24' o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"



AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

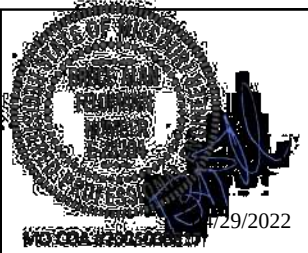
WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING. FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcacomponents.com ICC: www.iccsafe.org



MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF LET-IN VERT
DATE 01/02/2018
DRWG GBLLETIN0118



Structural Engineers – Since 1957

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

BOB D. CAMPBELL & CO., INC.

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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 9 Truss	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

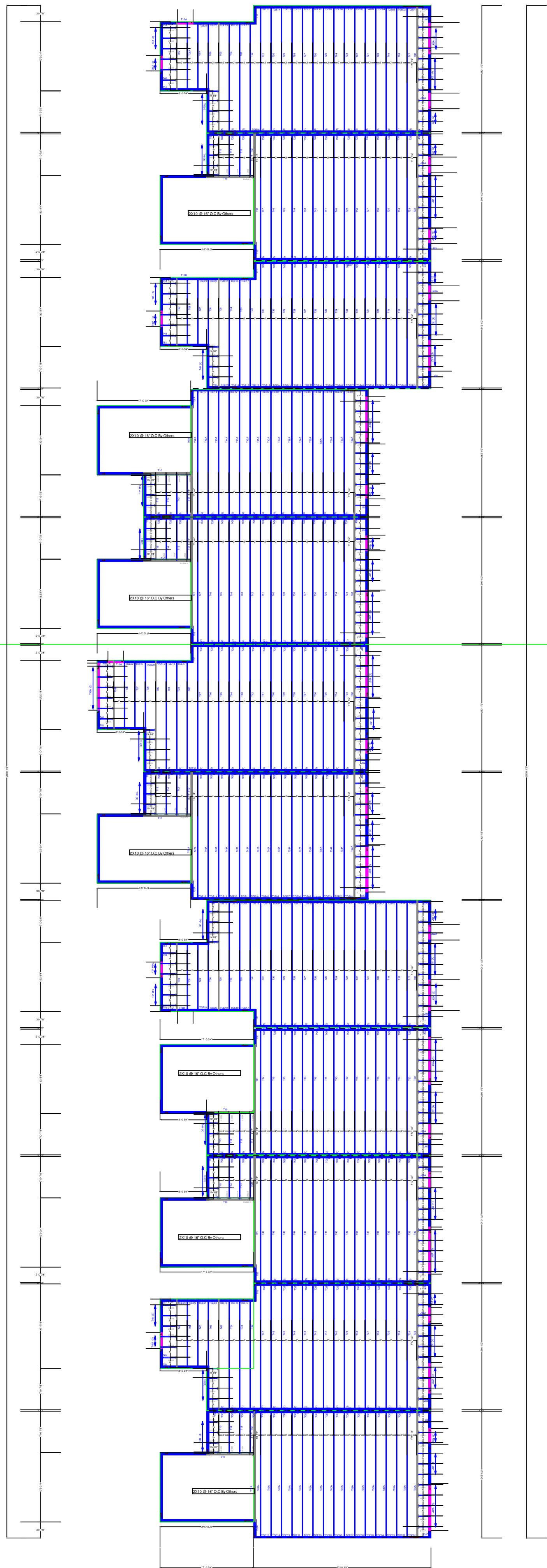
BDC Project No. TRI2102

Total Truss Quantity = 1041.

Total Plan Area with OHs = 14507 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
	= HUS26-2	5	
	= LUS24	242	Simpson



REVIEWED ☒	DATE RECEIVED:
REVIEWED AS NOTED ☐	DATE REVIEWED: 6/6/2022
REVISE AND RESUBMIT ☐	REVIEWED BY: michaela.silva

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



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW	
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS	
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS	
☐	APPROVED
☐	FURNISH AS CORRECTED
☐	REJECTED, REVISE & RESUBMIT
☐	RETURNED NOT REVIEWED
☒	REVIEWED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY	
Bob D. Campbell & Co., Inc.	
STRUCTURAL ENGINEERS	
DATE: 05/30/2022	BY: CB

DO NOT Erect Backwards/UpSide Down or Cut, Alter, Installed Trusses

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220690

Date: 5/12/2022



3363 S. Halstead Rd.
Halstead, KS 67056
(316) 930-6108

NOTE: Yellow ID Tag Location Indicates
Left/Front/Bottom of Truss



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/12/2022

REVIEWED ☒

DATE RECEIVED:

REVIEWED AS NOTED ☐

DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐

REVIEWED BY: michaela.silva

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



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www.triarchitects.com

SHOP DRAWING REVIEW

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CORRECTNESS OF DIMENSIONS OR DETAILS

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/30/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220690
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00
	JRef #: 1XIH93160007
Wind Standard: ASCE 7-16	Wind Speed (mph): 109
Building Type: Closed	Design Loading (psf): 65.00

This package contains general notes pages, 102 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	132.22.1629.42228	J02	2	132.22.1629.46133	J02G
3	132.22.1629.42634	T01	4	132.22.1629.43172	T02
5	132.22.1629.43358	T03	6	132.22.1629.46577	T04
7	132.22.1629.39738	T05	8	132.22.1629.42899	T06
9	132.22.1629.44384	T07	10	132.22.1629.43584	T08
11	132.22.1629.43932	T10	12	132.22.1629.43460	T11
13	132.22.1629.42916	T12	14	132.22.1629.44323	T13
15	132.22.1629.46079	T14	16	132.22.1629.42851	T15
17	132.22.1629.43156	T17	18	132.22.1629.39265	T18
19	132.22.1629.45012	T19	20	132.22.1629.42863	T20
21	132.22.1629.41546	T21	22	132.22.1642.37653	T22
23	132.22.1629.43745	T23	24	132.22.1629.44199	T24
25	132.22.1629.45487	T25	26	132.22.1629.43508	T26
27	132.22.1629.44320	T27	28	132.22.1629.43240	T28
29	132.22.1629.41786	T29	30	132.22.1629.44658	T30
31	132.22.1629.45098	T31	32	132.22.1629.41666	T33
33	132.22.1629.41408	T34	34	132.22.1629.43657	T35
35	132.22.1629.43189	T36	36	132.22.1629.43041	T37
37	132.22.1629.42023	T38	38	132.22.1629.42244	T39
39	132.22.1629.43669	T40	40	132.22.1629.43327	T41
41	132.22.1629.42377	T42	42	132.22.1629.41944	T43
43	132.22.1629.43718	T44	44	132.22.1629.41521	T45
45	132.22.1629.39214	T46	46	132.22.1629.41439	T47
47	132.22.1629.43389	T48	48	132.22.1629.42283	T49
49	132.22.1629.41690	T50	50	132.22.1629.42952	T51



Alpine, an ITW company
 155 Harlem Ave.
 North Building, 4th Floor
 Glenview, IL 60025
 Phone: (800)326-4102 (314)344-9121
 alpineitw.com

05/12/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	Job Number: JB-220690
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	132.22.1629.45561	TGE01
53	132.22.1629.46193	TGE03
55	132.22.1629.42035	TGE05
57	132.22.1629.39215	TGE07
59	132.22.1629.44992	TGE09
61	132.22.1629.43081	TGE11
63	132.22.1629.41404	TGE13
65	132.22.1629.43408	TGE15
67	132.22.1629.42632	TGE18
69	132.22.1629.39197	TGE20
71	132.22.1629.44657	TGE22
73	132.22.1629.41332	TGE16
75	132.22.1629.43583	T32
77	132.22.1644.56770	T48A
79	132.22.1629.43441	T08A
81	132.22.1629.42976	T19A
83	132.22.1642.30863	T14A
85	132.22.1644.51183	T47A
87	132.22.1644.38410	T45A
89	132.22.1644.25580	T43A
91	132.22.1644.06800	T41A
93	132.22.1643.52563	T39A
95	132.22.1643.33050	T37A
97	132.22.1643.20787	T35A
99	132.22.1642.54143	T33A
101	132.22.1645.14180	T52A
103	A11530ENC160118	
105	DEFLCAMB1014	
107	GBLLETIN0118	

Item	Drawing Number	Truss
52	132.22.1629.44764	TGE02
54	132.22.1629.46314	TGE04
56	132.22.1629.41699	TGE06
58	132.22.1629.46491	TGE08
60	132.22.1629.44257	TGE10
62	132.22.1629.41838	TGE12
64	132.22.1629.42025	TGE14
66	132.22.1629.42633	TGE17
68	132.22.1629.41930	TGE19
70	132.22.1629.42389	TGE21
72	132.22.1629.43738	TGE23
74	132.22.1629.41559	T52
76	132.22.1642.03370	T09
78	132.22.1629.41590	J02A
80	132.22.1642.17403	T09B
82	132.22.1629.41854	T16A
84	132.22.1629.42903	T01A
86	132.22.1644.43550	T46A
88	132.22.1644.30937	T44A
90	132.22.1644.14913	T42A
92	132.22.1643.59780	T40A
94	132.22.1643.48177	T38A
96	132.22.1643.26203	T36A
98	132.22.1643.10310	T34A
100	132.22.1642.45927	T32A
102	132.22.1629.42197	T16B
104	BRCLBSUB0119	
106	GABRST160118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)**Key to Terms:**

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

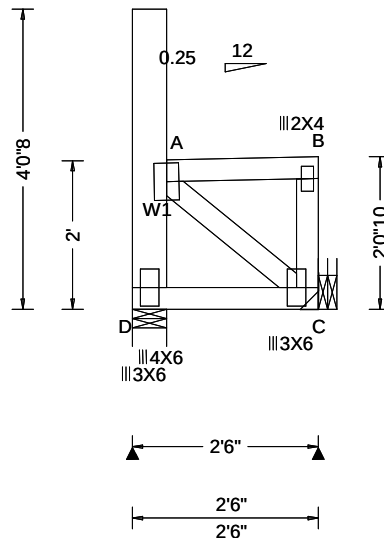
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

SEQN: 35939 / FROM:	MONO Ply: 1 Qty: 65	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: J02	Cust: R 9316 JRef: 1XH93160007 T193 DrwNo: 132.22.1629.42228 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.03 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.103 Max BC CSI: 0.079 Max Web CSI: 0.131 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 147 /- /- /114 /79 /90 C 173 /- /- /157 /63 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. A - C 238 -387

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	2.03	30.67 2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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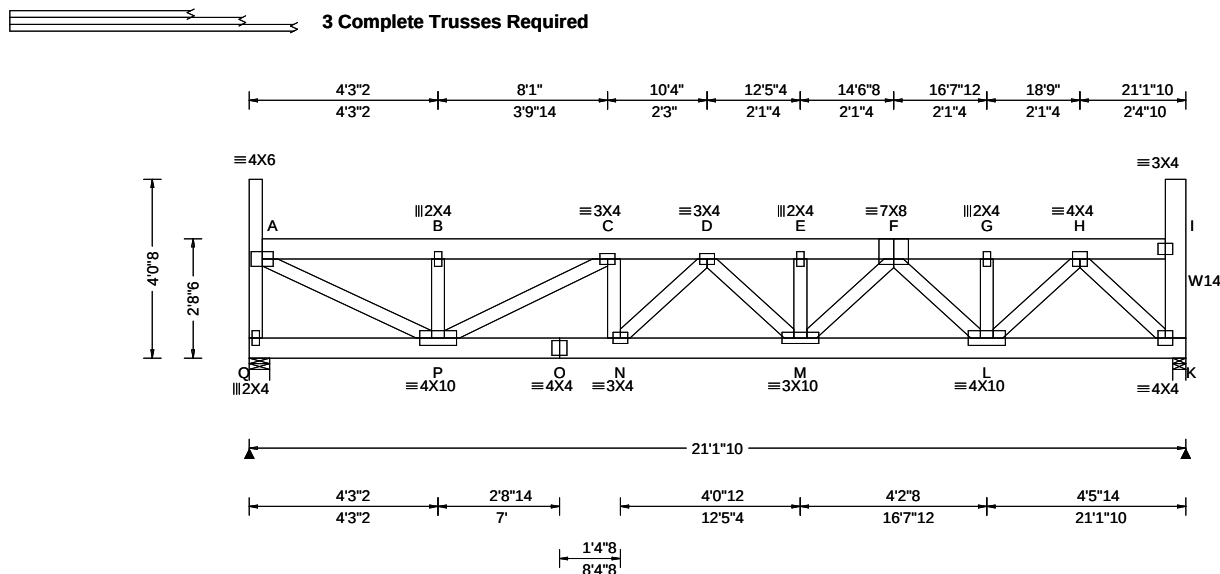
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35557 / FROM:	FLAT Qty: 4	Ply: 3 Qty: 4	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T01	Cust: R 9316 JRef: 1XH93160007 T10 / DrwNo: 132.22.1629.42634 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.060 D 999 360 VERT(CL): 0.111 D 999 240 HORZ(LL): 0.014 K - - HORZ(TL): 0.026 K - - Creep Factor: 2.0 Max TC CSI: 0.054 Max BC CSI: 0.283 Max Web CSI: 0.291 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Q 1981 - / - / - / 117 - / - K 2325 - / - / - / 149 - / - Wind reactions based on MWFRS Q Brg Wid = 5.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings Q & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 68 - 1106 E - F 154 - 2215 B - C 68 - 1102 F - G 93 - 1390 C - D 116 - 1792 G - H 93 - 1390 D - E 154 - 2215

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs: 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 60 plf at 0.00 to 60 plf at 21.14
BC: 1611 lb Conc. Load at 12.90

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 20.39 1.34 13.80 3.32
20.68 0.00 20.39 1.34 13.80 3.32
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

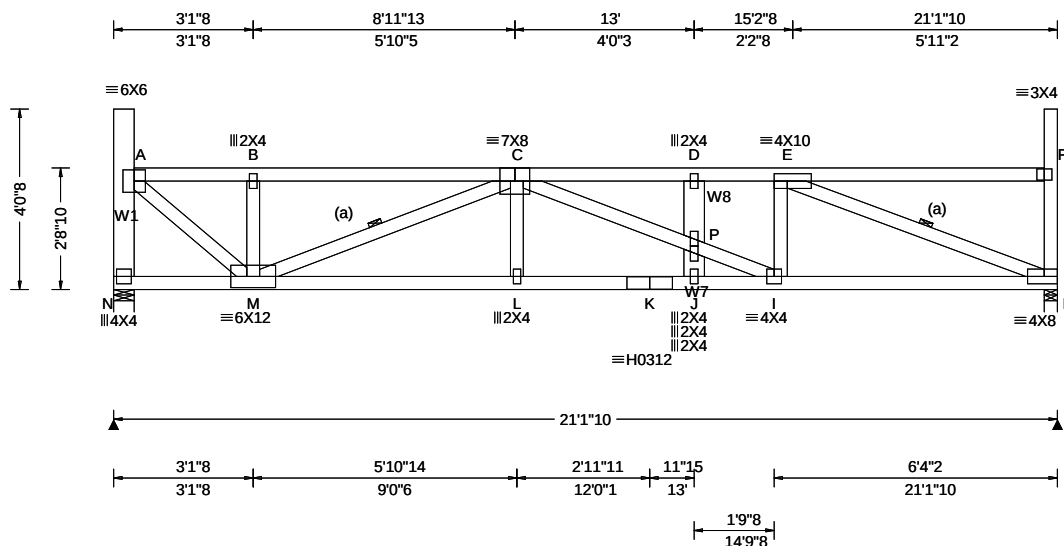
Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.
Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.



05/12/2022
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35461 / FROM:	FLAT Ply: 1 Qty: 5	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T02	Cust: R 9316 JRef: 1XH93160007 T1 / DrwNo: 132.22.1629.43172 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.138 D 999 360 VERT(CL): 0.256 D 990 240 HORZ(LL): 0.036 H - - HORZ(TL): 0.066 H - - Creep Factor: 2.0 Max TC CSI: 0.439 Max BC CSI: 0.523 Max Web CSI: 0.606 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1340 /- /- /640 /72 /120 H 1352 /- /- /644 /74 /- Non-Gravity Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 1.7 (Truss) H Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 136 - 1624 C - D 137 - 2651 B - C 136 - 1621 D - E 137 - 2651

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1, W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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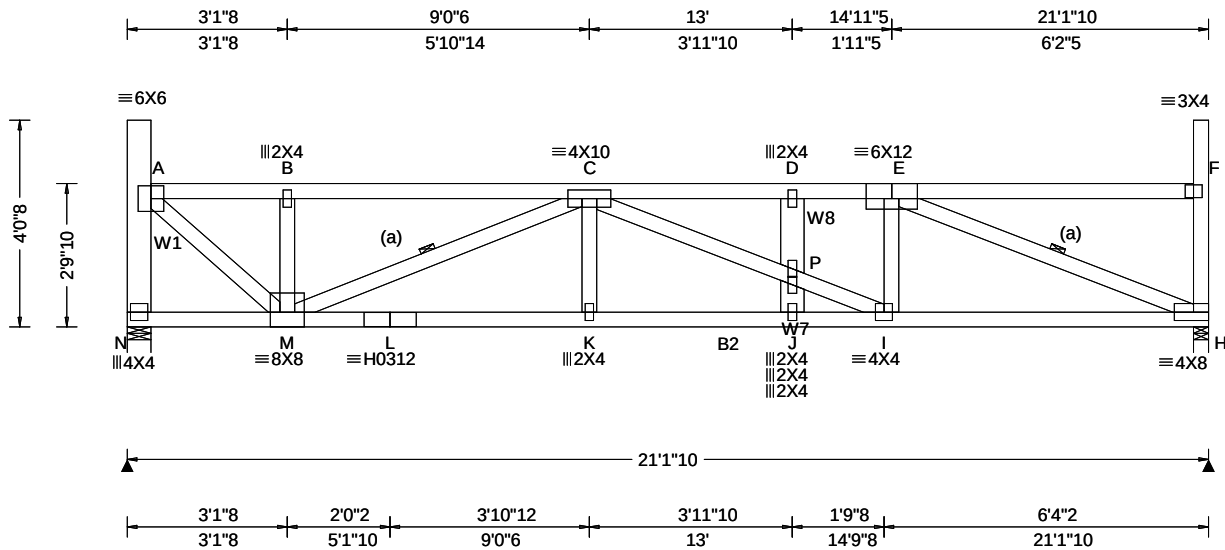
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35463 / FROM:	FLAT Ply: 1 Qty: 5	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T04	Cust: R 9316 JRef: 1XH93160007 T3 / DrwNo: 132.22.1629.46577 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.132 D 999 360 VERT(CL): 0.236 D 999 240 HORZ(LL): 0.036 H - - HORZ(TL): 0.067 H - - Creep Factor: 2.0 Max TC CSI: 0.440 Max BC CSI: 0.919 Max Web CSI: 0.592 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1342 - / - / - / 639 / 73 / 118 H 1353 - / - / - / 644 / 75 / - Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 2.1 (Truss) H Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 132 - 1571 C - D 159 - 2565 B - C 132 - 1567 D - E 159 - 2565

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1, W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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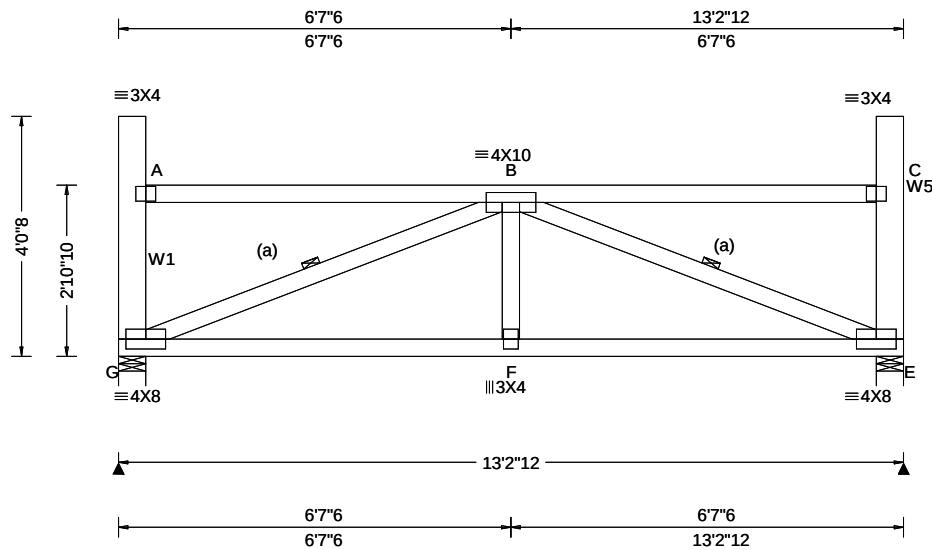
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35464 / FROM:	SPEC Ply: 1 Qty: 5	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T06	Cust: R 9316 JRef: 1XIH93160007 T5 / DrwNo: 132.22.1629.42899 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.89 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.043 F 999 360 VERT(CL): 0.080 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.028 E - - Creep Factor: 2.0 Max TC CSI: 0.546 Max BC CSI: 0.744 Max Web CSI: 0.315 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 828 /- /- /407 /56 /115 E 828 /- /- /407 /56 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1311 -165 F - E 1311 -165

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1, W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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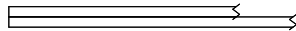
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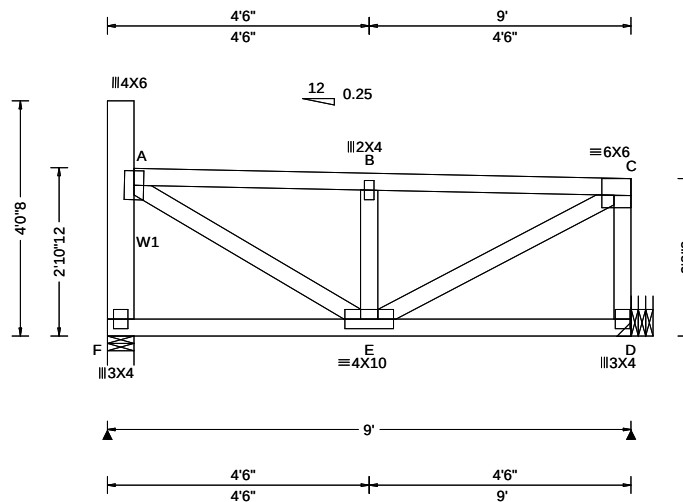


155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35556 / FROM:	MONO Qty: 7	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T10	Cust: R 9316 JRef: 1XIH93160007 T9 / DrwNo: 132.22.1629.43932 / NDW 05/12/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.015 B 999 360 VERT(CL): 0.028 B 999 240 HORZ(LL): 0.004 A - - HORZ(TL): 0.007 A - - Creep Factor: 2.0 Max TC CSI: 0.116 Max BC CSI: 0.730 Max Web CSI: 0.231 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL F 1371 /- /- /- /177 /- D 1611 /- /- /- /149 /- Non-Gravity Wind reactions based on MWFRS F Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = - Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 96 -857 B - C 96 -858

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 3.75" o.c.
Webs: 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 60 plf at 0.00 to 60 plf at 2.33
BC: From 30 plf at 2.33 to 30 plf at 9.00
BC: 762 lb Conc. Load at 2.33
BC: 527 lb Conc. Load at 4.33, 6.33, 8.33

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.84
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
F - A	51 -487	E - C	940 -107
A - E	900 -96	C - D	56 -506



05/12/2022

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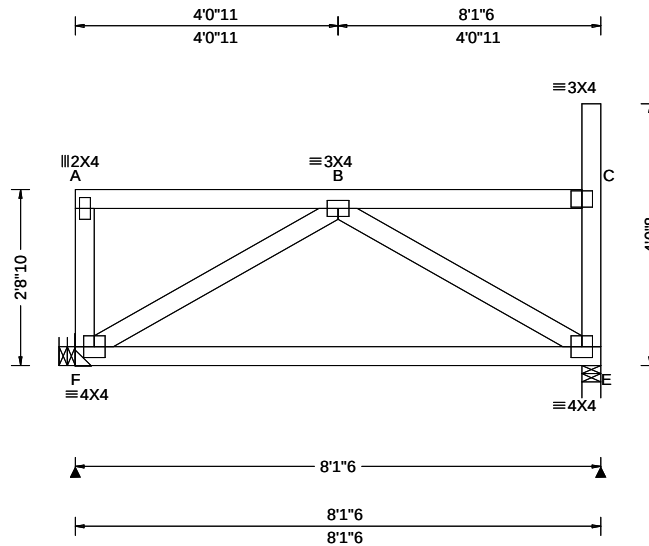
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35469 / FROM:	FLAT Ply: 1 Qty: 7	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T12	Cust: R 9316 JRef: 1XIH93160007 T210 DrwNo: 132.22.1629.42916 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.004 B 999 360 VERT(CL): 0.008 B 999 240 HORZ(LL): 0.002 E - - HORZ(TL): 0.003 E - - Creep Factor: 2.0 Max TC CSI: 0.217 Max BC CSI: 0.611 Max Web CSI: 0.204 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity F 527 /- /- /270 /43 /92 E 507 /- /- /255 /45 /- Wind reactions based on MWFRS F Brg Wid = - Min Req = - E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing E is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	7.82	0.00	20.00	1.32	13.12 3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.

End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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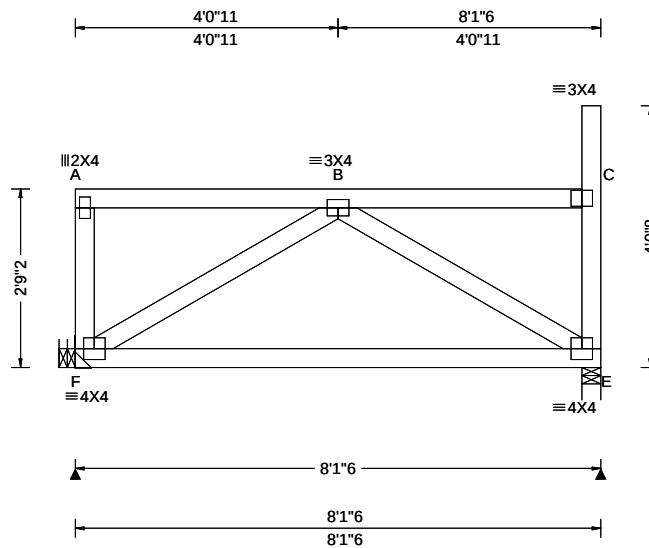
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35470 / FROM:	FLAT Ply: 1 Qty: 7	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T13	Cust: R 9316 JRef: 1XIH93160007 T126 DrwNo: 132.22.1629.44323 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.76 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.004 B 999 360 VERT(CL): 0.008 B 999 240 HORZ(LL): 0.002 E - - HORZ(TL): 0.003 E - - Creep Factor: 2.0 Max TC CSI: 0.217 Max BC CSI: 0.611 Max Web CSI: 0.204 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity F 527 /- /- /270 /44 /91 E 507 /- /- /255 /45 /- Wind reactions based on MWFRS F Brg Wid = - Min Req = - E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing E is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	7.82	0.00	20.00	1.28	11.74 2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.

End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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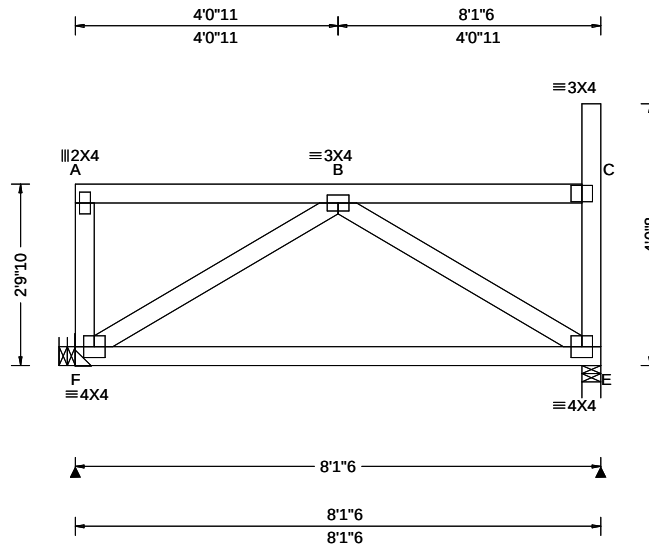
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35471 / FROM:	FLAT Ply: 1 Qty: 7	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T14	Cust: R 9316 JRef: 1XIH93160007 T130 DrwNo: 132.22.1629.46079 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.004 B 999 360 VERT(CL): 0.007 B 999 240 HORZ(LL): 0.002 E - - HORZ(TL): 0.003 E - - Creep Factor: 2.0 Max TC CSI: 0.218 Max BC CSI: 0.610 Max Web CSI: 0.203 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL F 527 /- /- /270 /44 /91 E 507 /- /- /255 /45 /- Non-Gravity Wind reactions based on MWFRS F Brg Wid = - Min Req = - E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing E is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	7.82	0.00	20.00	1.24	10.35 2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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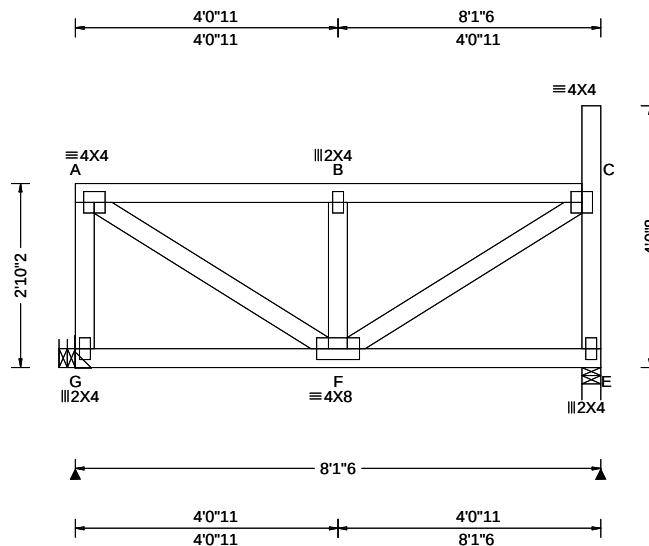
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35553 / FROM:	FLAT Ply: 1 Qty: 7	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T15	Cust: R 9316 JRef: 1XIH93160007 T124 DrwNo: 132.22.1629.42851 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defll/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.012 B 999 360	G	762	/-	/-	/-	/168	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.021 B 999 240	E	607	/-	/-	/-	/111	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): -0.002 C - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.004 C - -	G Brg Wid = - Min Req = -						
	Creep Factor: 2.0		E Brg Wid = 3.5 Min Req = 1.5 (Truss)							
NCBCLL: 0.00	Mean Height: 21.84 ft	IBC 2018	Max TC CSI: 0.239	Bearing E is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.340	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	Rep Fac: Varies by Ld Case	Max Web CSI: 0.190	Maximum Top Chord Forces Per Ply (lbs)						
	MWFRS Parallel Dist: 0 to h/2	FT/RT: 20(0)/10(0)		Chords	Tens.Comp.	Chords	Tens. Comp.			
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Plate Type(s):		A - B	135	-667	B - C	135	-671	
	Loc. from endwall: Any		VIEW Ver: 21.02.00.1005.17							
	GCpi: 0.18	WAVE								
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 30 plf at 0.00 to 30 plf at 8.11
BC: 144 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading

Drifting snow load has been considered for only
in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	7.82	0.00	20.00	1.20	8.97 2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached
spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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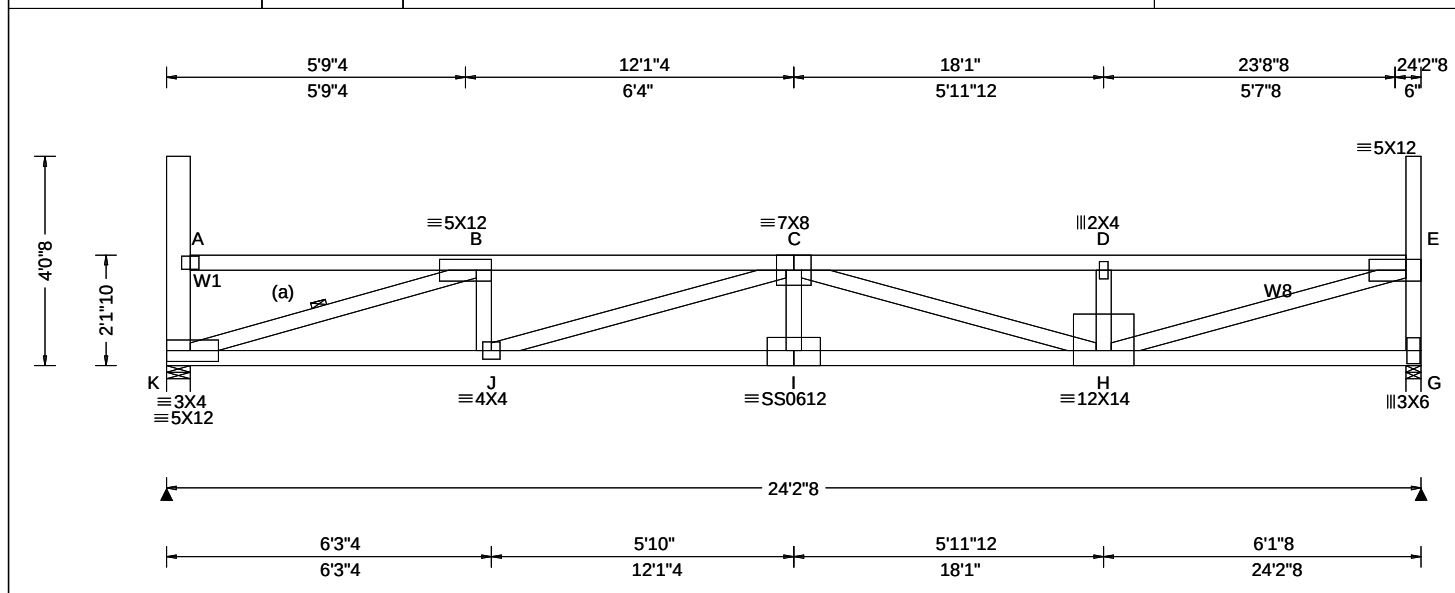
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35475 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T18	Cust: R 9316 JRef: 1XIH93160007 T125 DrwNo: 132.22.1629.39265 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.372 I 780 360 VERT(CL): 0.692 I 419 240 HORZ(LL): 0.061 A - - HORZ(TL): 0.114 A - - Creep Factor: 2.0 Max TC CSI: 0.939 Max BC CSI: 0.711 Max Web CSI: 0.846 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1542 /- /- /731 /78 /127 G 1553 /- /- /737 /80 /- Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 229 - 4117 D - E 225 - 4107 C - D 224 - 4102

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.32". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

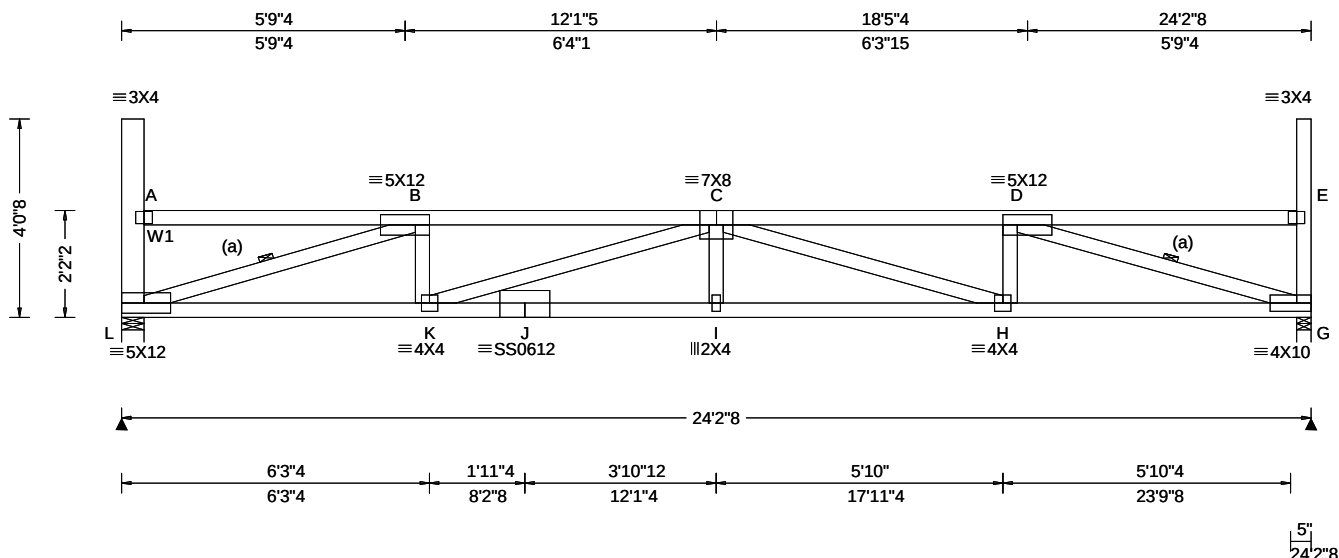


05/12/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35476 /	FLAT	Ply: 1	Job Number: JB-220690	Cust: R 9316 JRef:1XFH93160007 T115
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 132.22.1629.45012
			Truss Label: T19	/ NDW 05/12/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.356 I 817 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.661 I 439 240	L 1542 /- /- /731 /78 /126
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.075 G - -	G 1553 /- /- /737 /80 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.139 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.18 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.703	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.691	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.853	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE. 18SS	VIEW Ver: 21.02.00.1005.17	B - C 225 - 4029 C - D 216 - 4040

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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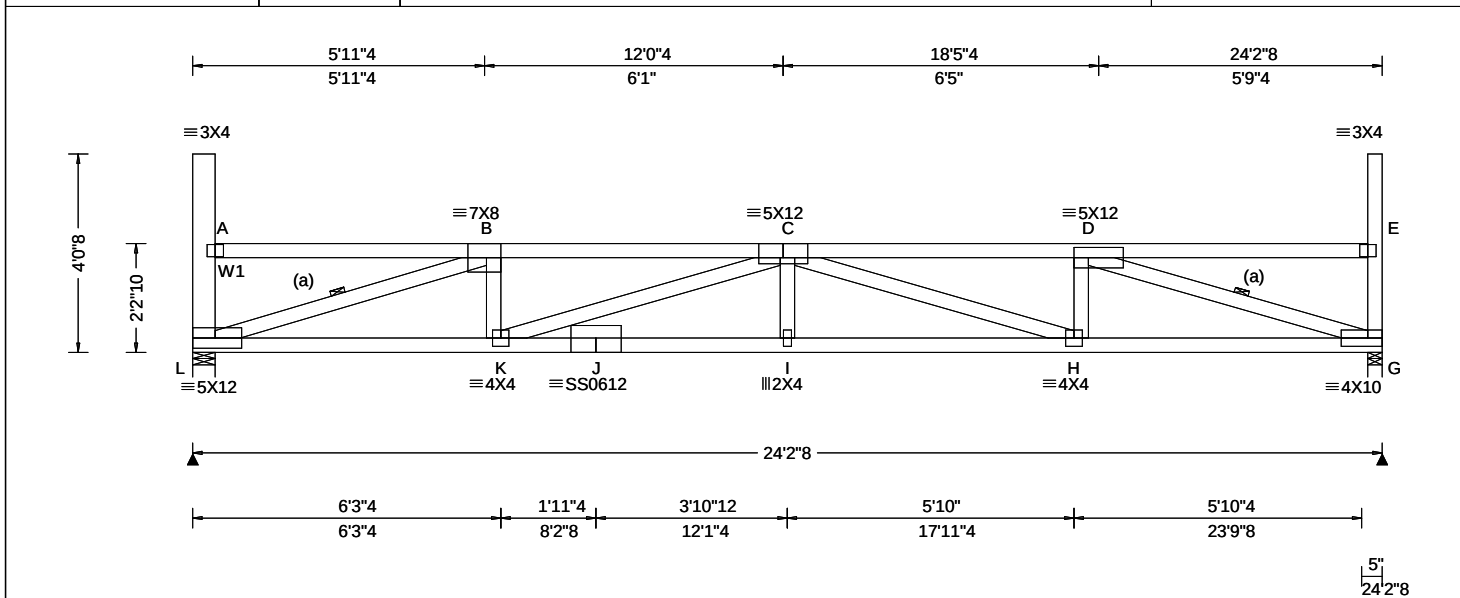
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ALPINE
AN ANTHRAX COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35478 /	FLAT	Ply: 1	Job Number: JB-220690	Cust: R 9316 JRef:1XfH93160007 T116
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 132.22.1629.42863
			Truss Label: T20	/ NDW 05/12/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.341 I 851 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.634 I 457 240	L 1542 /- /- /731 /78 /124
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.073 G - -	G 1553 /- /- /737 /80 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.137 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.22 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.680	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.681	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.839	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	B - C 221 -3945 C - D 212 -3955

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



05/12/2022

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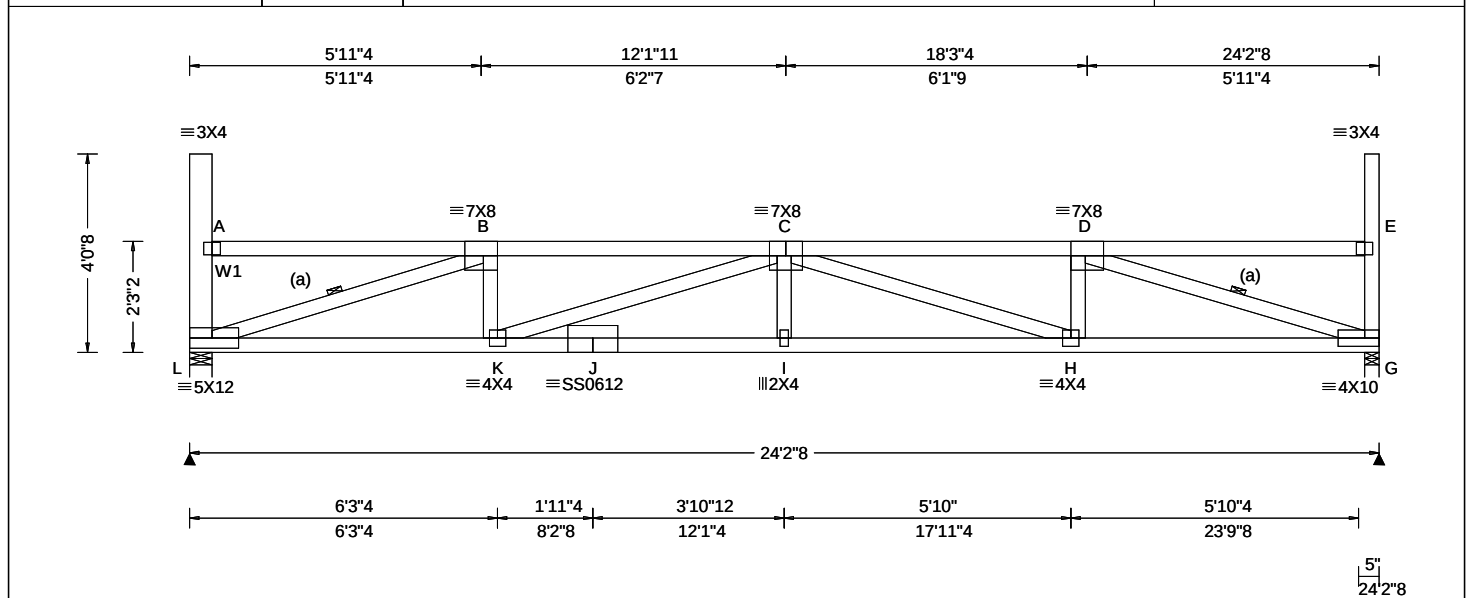
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35479 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T21	Cust: R 9316 JRef: 1XH93160007 T117 DrwNo: 132.22.1629.41546 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.327 I 887 360 VERT(CL): 0.608 I 477 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.134 G - - Creep Factor: 2.0 Max TC CSI: 0.656 Max BC CSI: 0.671 Max Web CSI: 0.824 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1540 /- /- /730 /78 /123 G 1552 /- /- /737 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -3860 C - D 187 -3870

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



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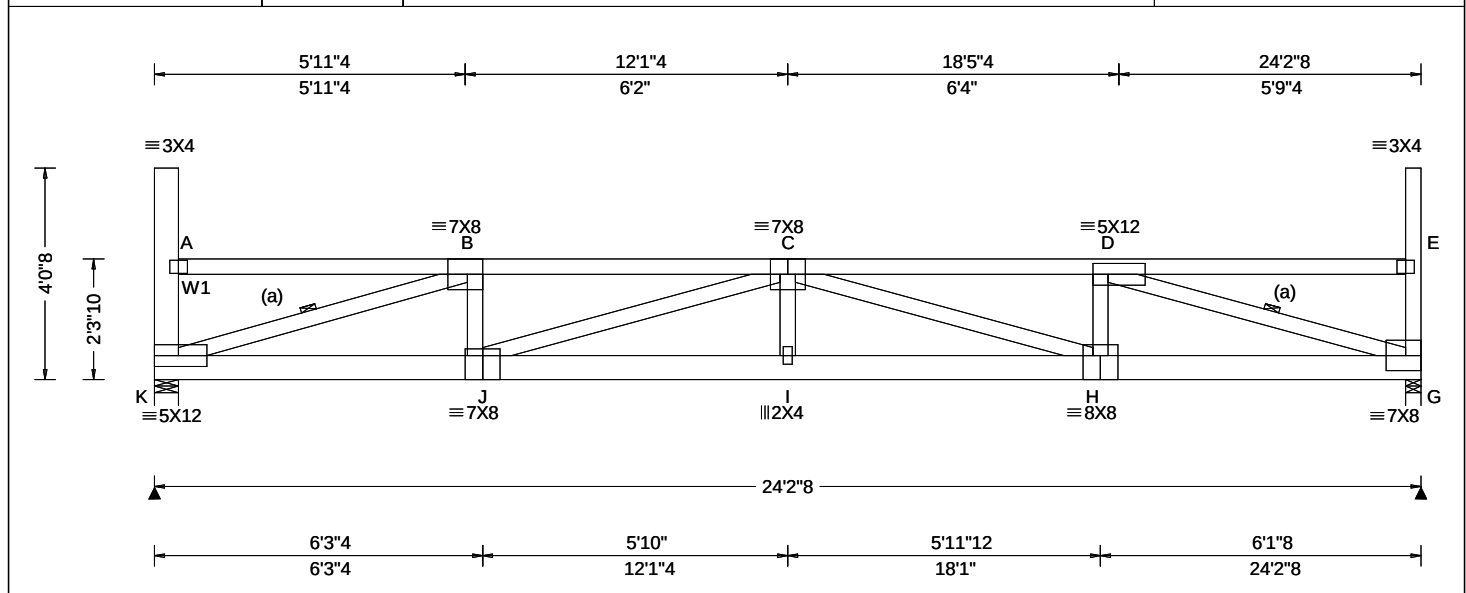
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35480 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T22	Cust: R 9316 JRef: 1XH93160007 T118 DrwNo: 132.22.1642.37653 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.297 I 979 360 VERT(CL): 0.551 I 526 240 HORZ(LL): 0.056 G - - HORZ(TL): 0.103 G - - Creep Factor: 2.0 Max TC CSI: 0.649 Max BC CSI: 0.627 Max Web CSI: 0.824 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1542 /- /- /730 /78 /119 G 1553 /- /- /736 /80 /- Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.5 (Truss) G Brg Wid = 3.5 Min Req = 2.5 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 201 - 3888 C - D 189 - 3896

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

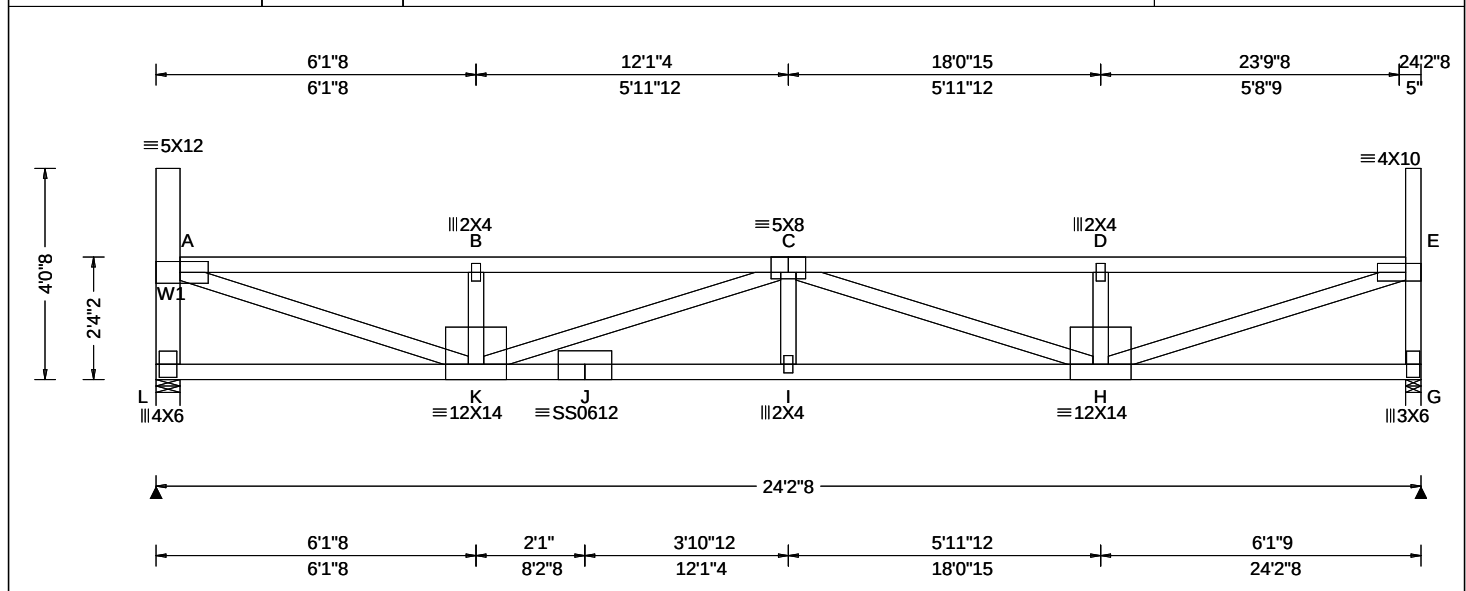


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35481 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T23	Cust: R 9316 JRef: 1XIH93160007 T119 DrwNo: 132.22.1629.43745 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.318 I 914 360 VERT(CL): 0.591 I 491 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.100 A - - Creep Factor: 2.0 Max TC CSI: 0.862 Max BC CSI: 0.651 Max Web CSI: 0.924 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /730 /78 /120 G 1553 /- /- /736 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 198 -3686 C - D 184 -3691 B - C 198 -3681 D - E 185 -3696

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

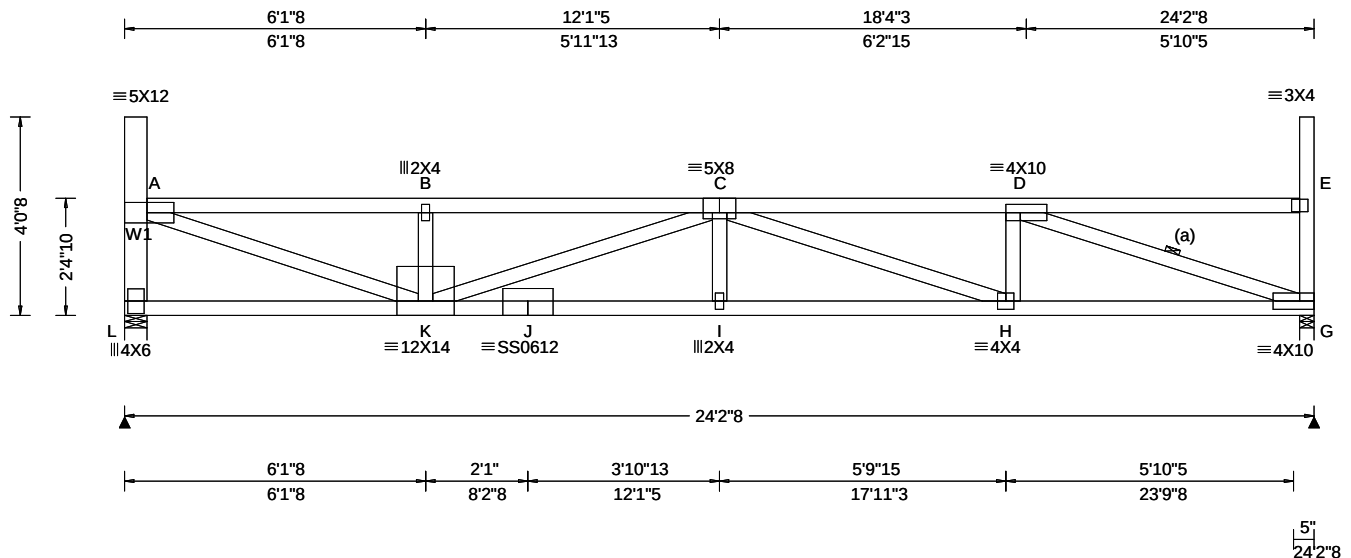


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35482 / FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T24	Cust: R 9316 JRef: 1XH93160007 T120 DrwNo: 132.22.1629.44199 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.298 I 973 360 VERT(CL): 0.555 I 523 240 HORZ(LL): 0.054 G - - HORZ(TL): 0.100 G - - Creep Factor: 2.0 Max TC CSI: 0.822 Max BC CSI: 0.647 Max Web CSI: 0.890 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /730 /78 /119 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 195 - 3615 C - D 177 - 3649 B - C 194 - 3610

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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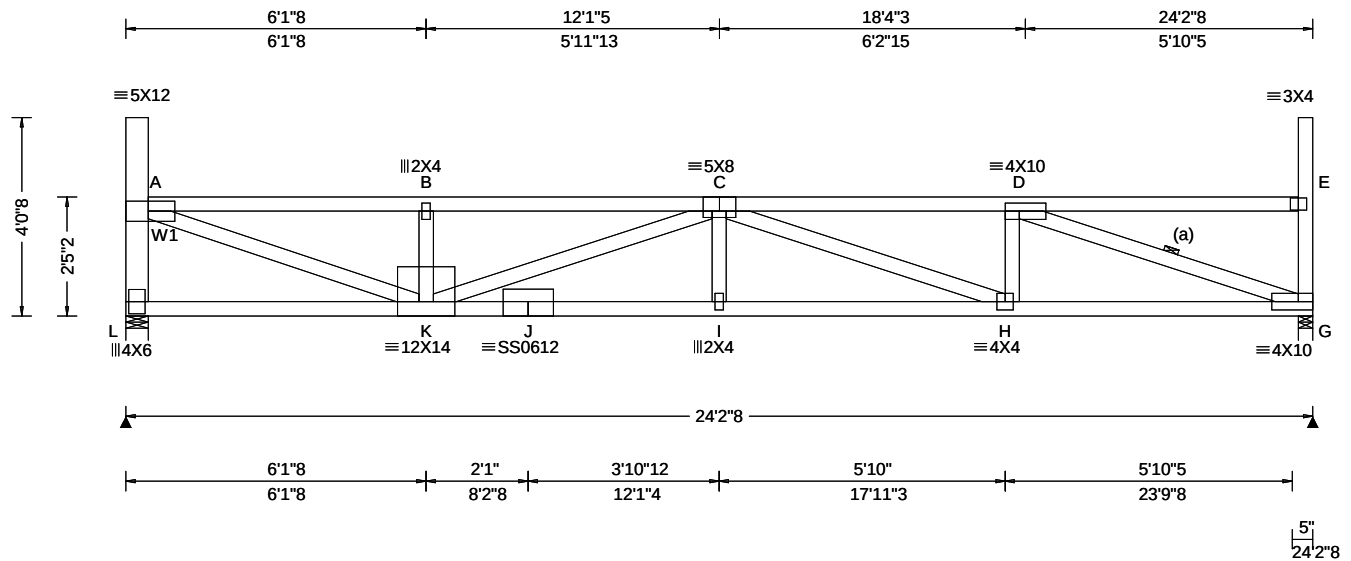
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North Building, 4th Floor
Glenview, IL 60025

SEQN: 35483 / FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T25	Cust: R 9316 JRef: 1XH93160007 T121 DrwNo: 132.22.1629.45487 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.287 I 999 360 VERT(CL): 0.534 I 543 240 HORZ(LL): 0.053 G - - HORZ(TL): 0.098 G - - Creep Factor: 2.0 Max TC CSI: 0.794 Max BC CSI: 0.641 Max Web CSI: 0.874 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 /- /- /730 /78 /118 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 191 - 3546 C - D 174 - 3579 B - C 191 - 3541

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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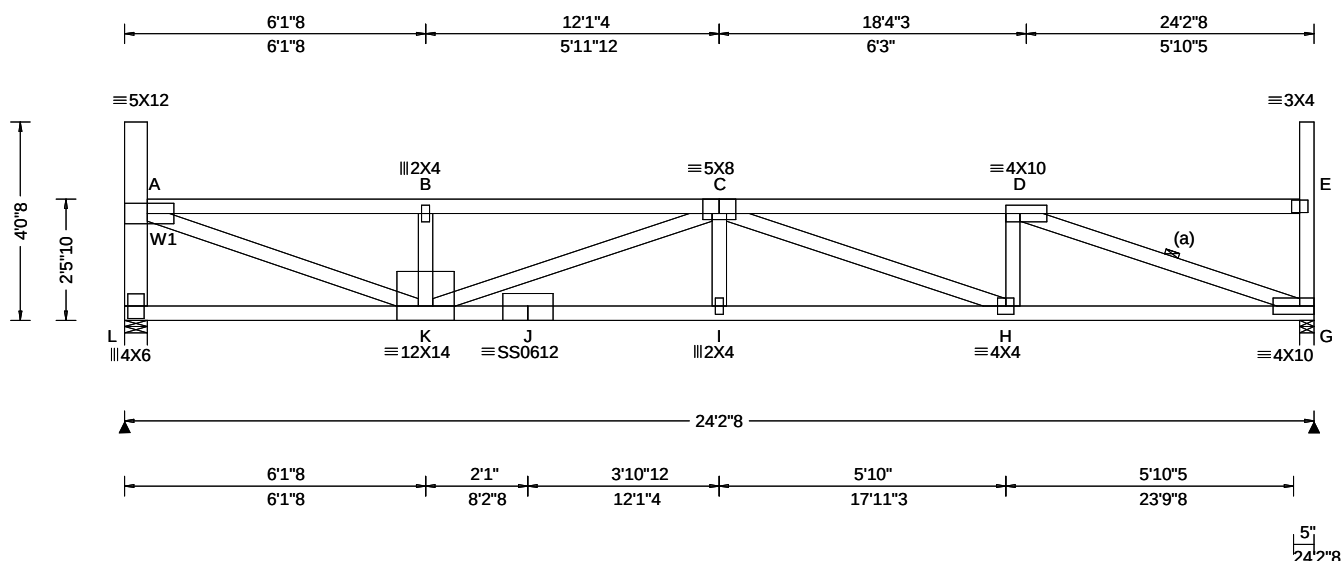
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35484 / FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T26	Cust: R 9316 JRef: 1XH93160007 T106 DrwNo: 132.22.1629.43508 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.277 I 999 360 VERT(CL): 0.515 I 563 240 HORZ(LL): 0.052 G - - HORZ(TL): 0.096 G - - Creep Factor: 2.0 Max TC CSI: 0.754 Max BC CSI: 0.635 Max Web CSI: 0.860 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /730 /78 /116 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 189 -3480 C - D 171 -3512 B - C 188 -3475

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

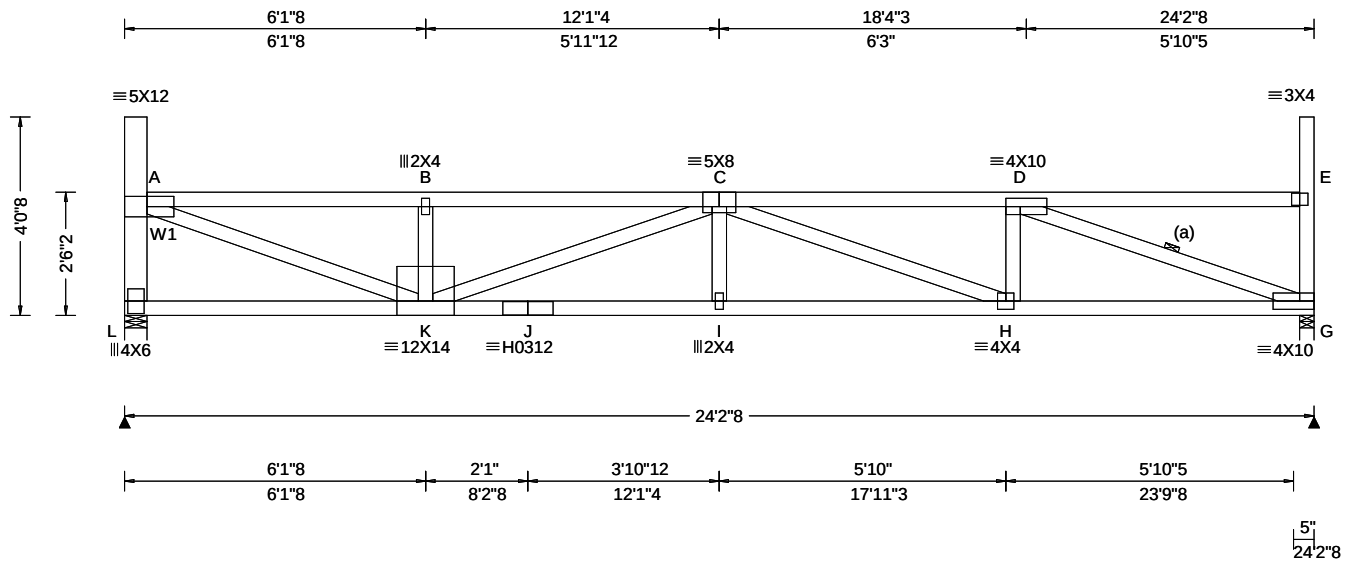


05/12/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35485 / FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T27	Cust: R 9316 JRef: 1XH93160007 T105 DrwNo: 132.22.1629.44320 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.268 I 999 360 VERT(CL): 0.497 I 584 240 HORZ(LL): 0.051 G - - HORZ(TL): 0.094 G - - Creep Factor: 2.0 Max TC CSI: 0.719 Max BC CSI: 0.629 Max Web CSI: 0.846 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /729 /79 /115 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 186 - 3416 C - D 168 - 3448 B - C 185 - 3412

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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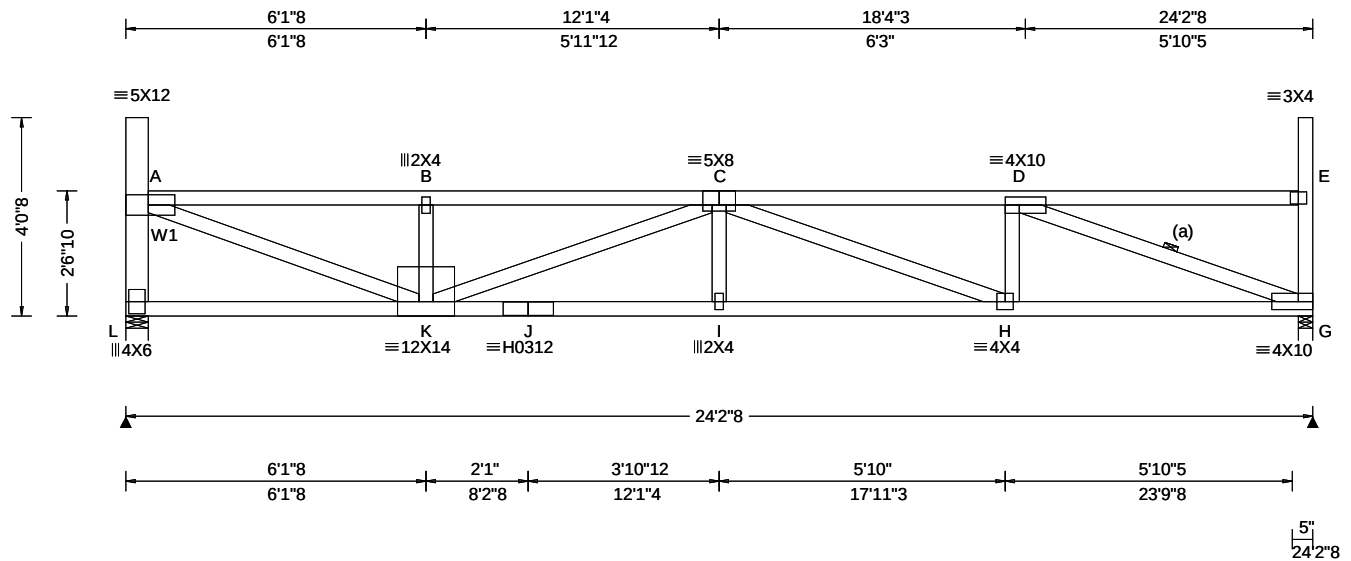
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35486 / FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T28	Cust: R 9316 JRef: 1XH93160007 T107 DrwNo: 132.22.1629.43240 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.55 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.258 I 999 360 VERT(CL): 0.480 I 604 240 HORZ(LL): 0.050 G - - HORZ(TL): 0.093 G - - Creep Factor: 2.0 Max TC CSI: 0.687 Max BC CSI: 0.623 Max Web CSI: 0.832 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1542 /- /- /729 /79 /113 G 1553 /- /- /736 /81 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 183 - 3355 C - D 165 - 3386 B - C 182 - 3350

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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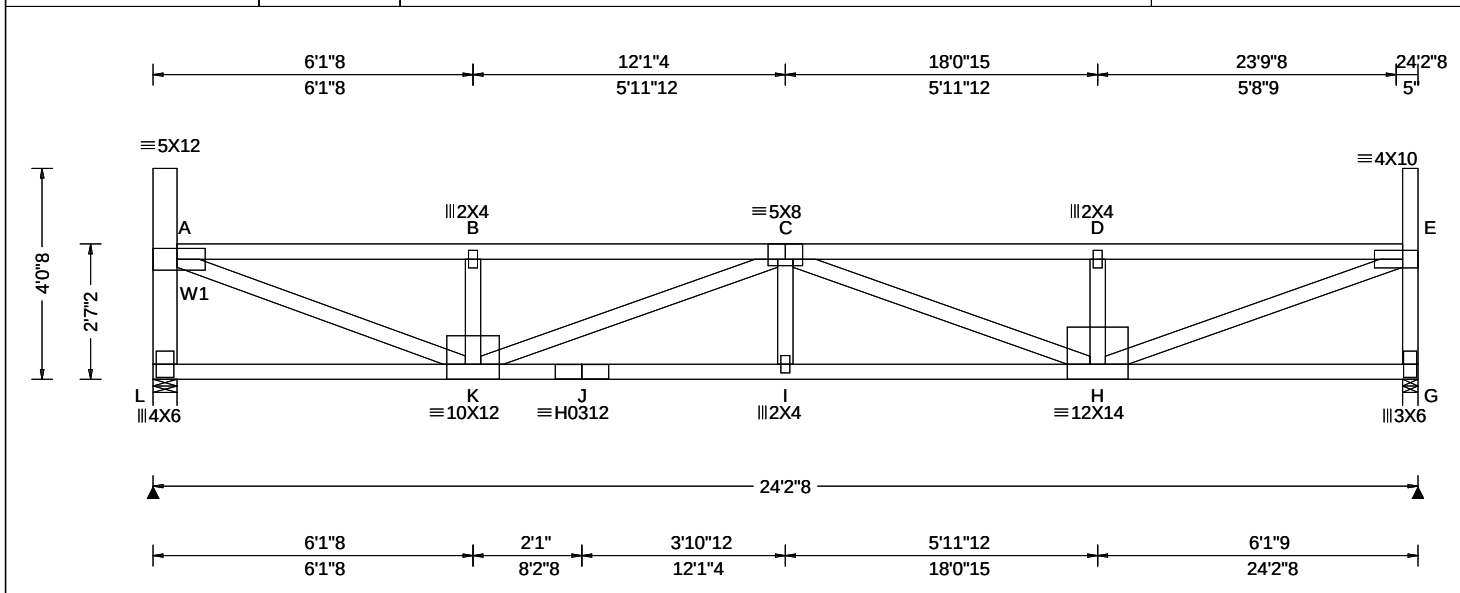
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35487 /	FLAT	Ply: 1	Job Number: JB-220690	Cust: R 9316 JRef:1XfH93160007 T111
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 132.22.1629.41786
			Truss Label: T29	/ NDW 05/12/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.256 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.476 I 610 240	L 1542 /- /- /729 /79 /112
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.049 A - -	G 1553 /- /- /736 /81 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.090 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.59 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.694	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.608	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.836	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	A - B 180 - 3295 C - D 165 - 3299

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.45	17.27	4.16
23.92	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



05/12/2022

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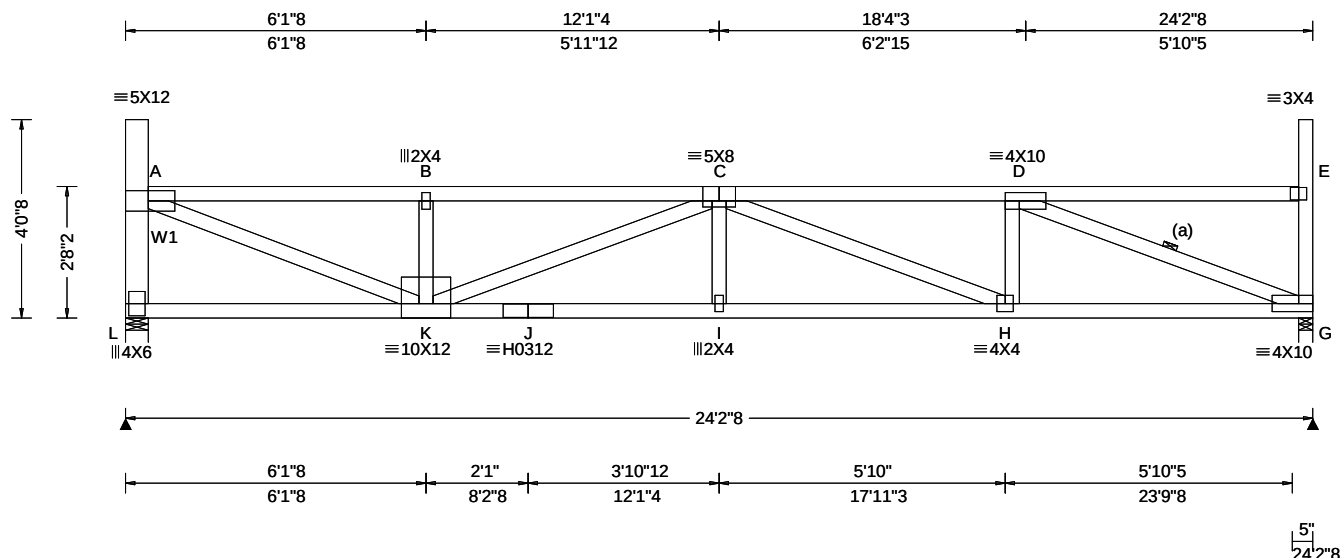
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35489 / FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T31	Cust: R 9316 JRef: 1XH93160007 T129 DrwNo: 132.22.1629.45098 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.234 I 999 360 VERT(CL): 0.435 I 668 240 HORZ(LL): 0.047 G - - HORZ(TL): 0.088 G - - Creep Factor: 2.0 Max TC CSI: 0.637 Max BC CSI: 0.606 Max Web CSI: 0.794 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /729 /79 /109 G 1553 /- /- /735 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 175 - 3183 C - D 156 - 3211 B - C 174 - 3178

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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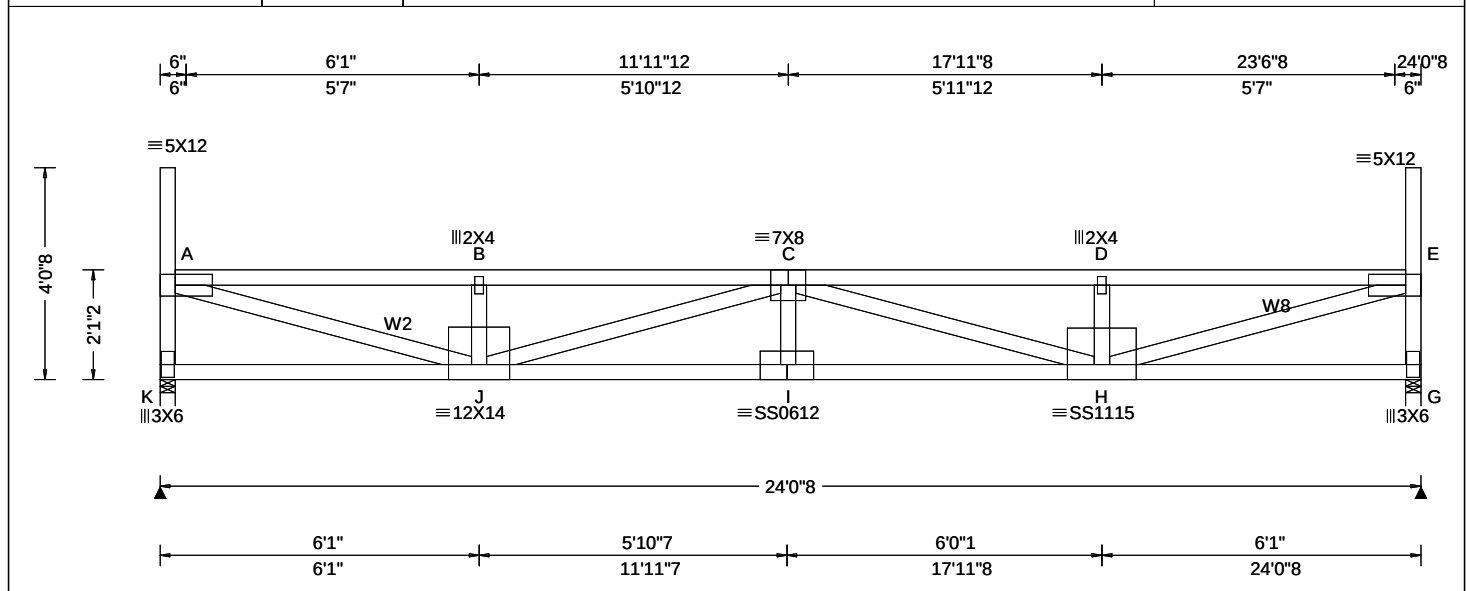
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35490 / FROM:	FLAT Qty: 6	Ply: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T33	Cust: R 9316 JRef: 1XIH93160007 T166 DrwNo: 132.22.1629.41666 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.380 I 759 360 VERT(CL): 0.706 I 408 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.110 A - - Creep Factor: 2.0 Max TC CSI: 0.932 Max BC CSI: 0.715 Max Web CSI: 0.844 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /733 /80 /138 G 1542 /- /- /733 /80 /- Non-Gravity Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 239 - 4139 C - D 239 - 4138 B - C 238 - 4133 D - E 239 - 4143

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2, W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.95	33.87	4.20
23.75	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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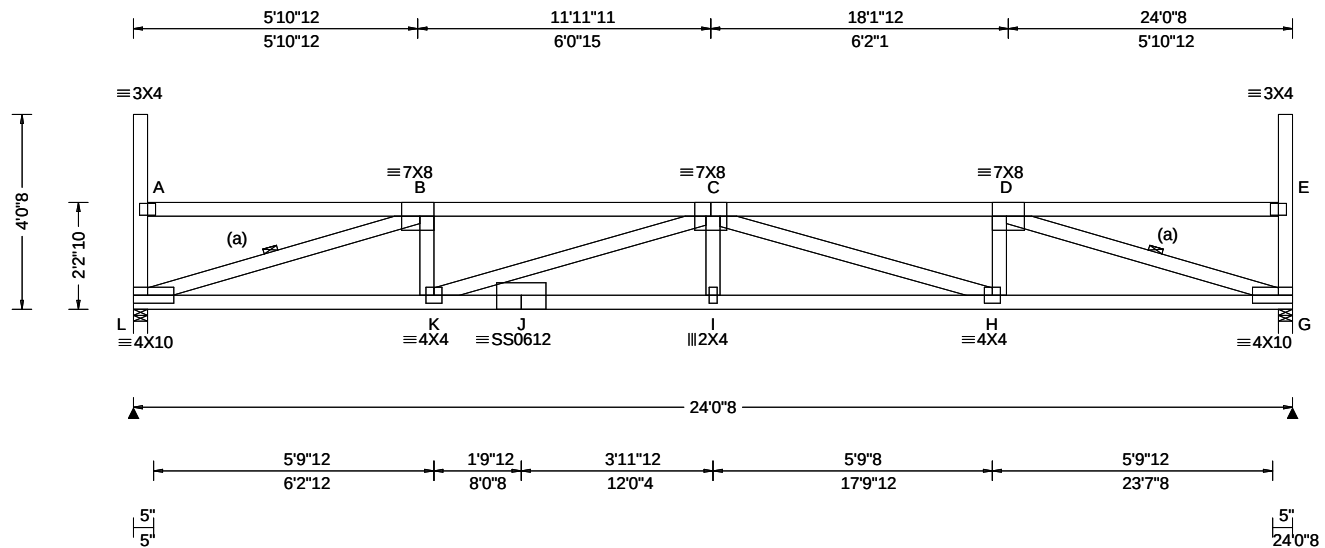
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SEQN: 35496 / FROM:	FLAT Qty: 6	Ply: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T36	Cust: R 9316 JRef: 1XH93160007 T152 DrwNo: 132.22.1629.43189 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.332 I 868 360 VERT(CL): 0.617 I 467 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.134 G - - Creep Factor: 2.0 Max TC CSI: 0.656 Max BC CSI: 0.673 Max Web CSI: 0.820 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 /- /- /732 /80 /134 G 1541 /- /- /732 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 221 - 3898 C - D 221 - 3897

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



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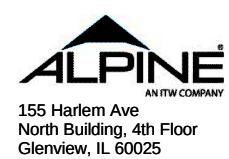
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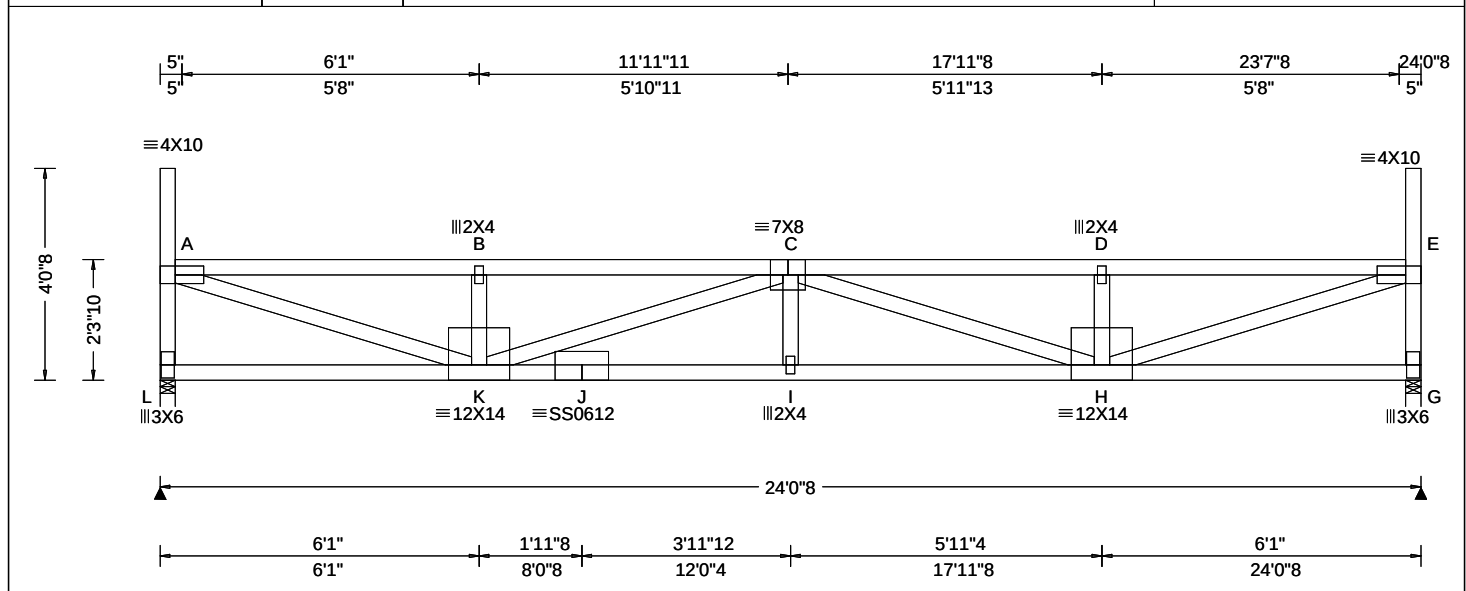
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



SEQN: 35500 / FROM:	FLAT Ply: 1 Qty: 6	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T38	Cust: R 9316 JRef: 1XH93160007 T162 DrwNo: 132.22.1629.42023 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.323 I 893 360 VERT(CL): 0.600 I 480 240 HORZ(LL): 0.053 A - - HORZ(TL): 0.099 A - - Creep Factor: 2.0 Max TC CSI: 0.854 Max BC CSI: 0.652 Max Web CSI: 0.928 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 - / - / 732 / 80 / 132 G 1541 - / - / 732 / 80 / - Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 195 - 3715 C - D 194 - 3709 B - C 194 - 3710 D - E 195 - 3714

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.74	26.95	5.28
23.75	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

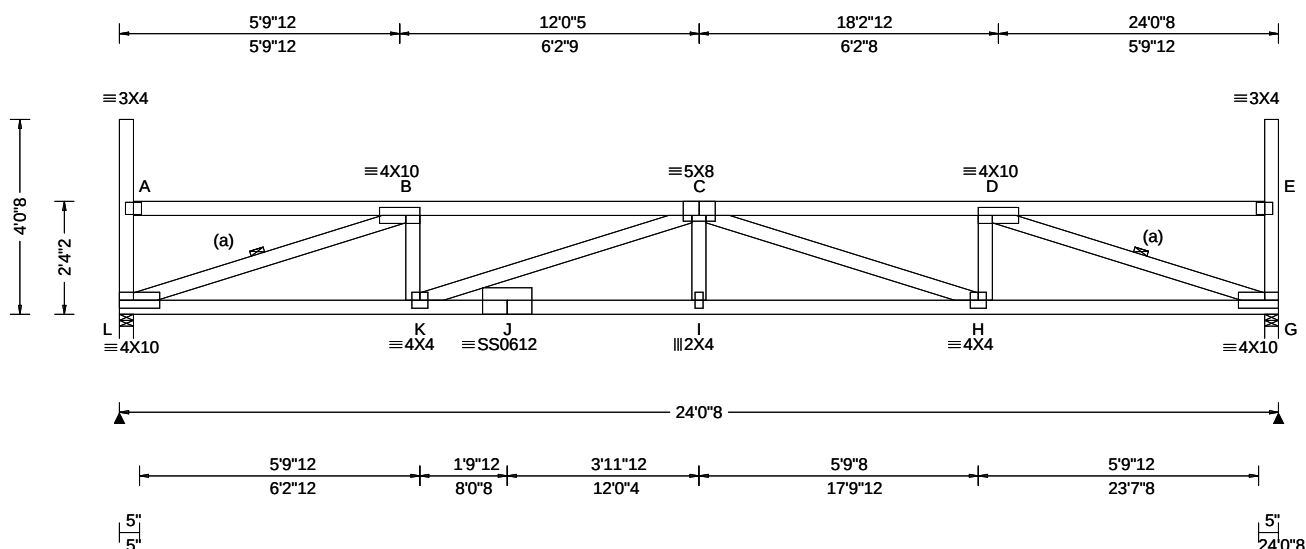


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35502 / FROM:	FLAT Ply: 1 Qty: 6	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T39	Cust: R 9316 JRef: 1XH93160007 T158 DrwNo: 132.22.1629.42244 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.296 I 976 360 VERT(CL): 0.549 I 525 240 HORZ(LL): 0.068 G - - HORZ(TL): 0.126 G - - Creep Factor: 2.0 Max TC CSI: 0.598 Max BC CSI: 0.650 Max Web CSI: 0.783 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /81 /131 G 1542 /- /- /732 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 188 -3671 C - D 189 -3670

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

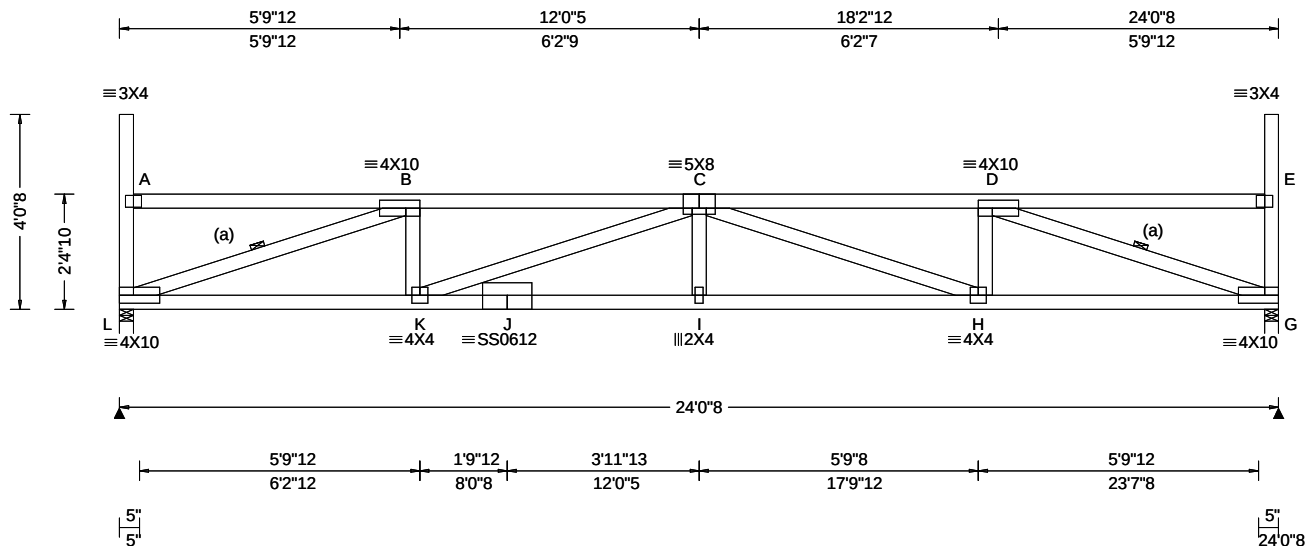


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Glenview, IL 60025

SEQN: 35504 / FROM:	FLAT Ply: 1 Qty: 6	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T40	Cust: R 9316 JRef: 1XH93160007 T155 DrwNo: 132.22.1629.43669 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.285 I 999 360 VERT(CL): 0.529 I 545 240 HORZ(LL): 0.066 G - - HORZ(TL): 0.123 G - - Creep Factor: 2.0 Max TC CSI: 0.583 Max BC CSI: 0.643 Max Web CSI: 0.772 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /81 /129 G 1542 /- /- /732 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 185 - 3600 C - D 185 - 3598

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

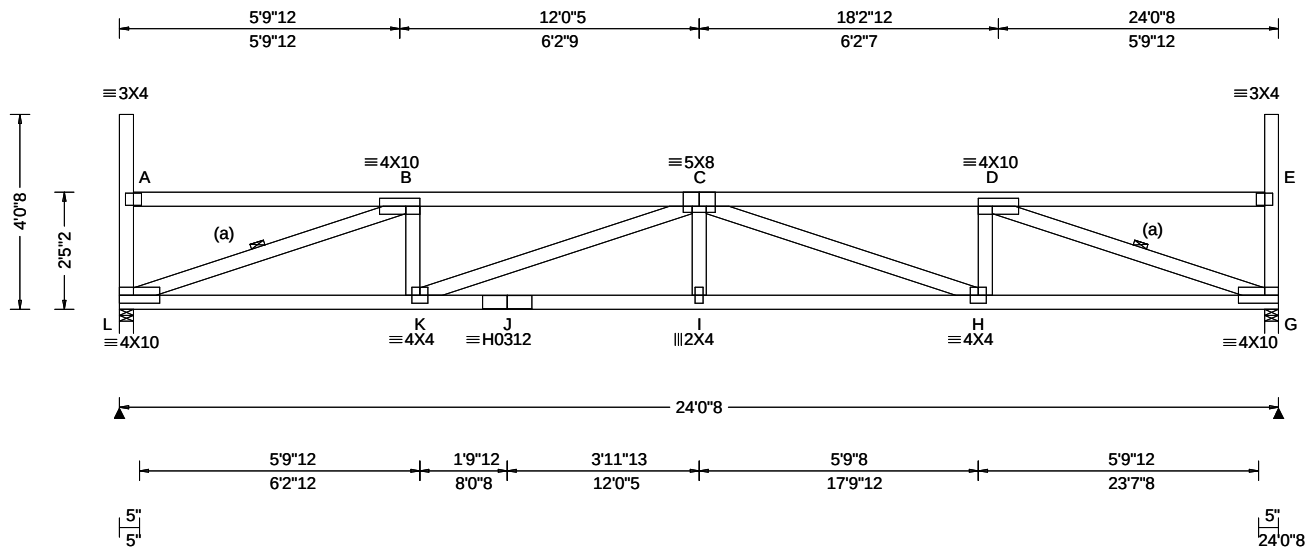


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35506 / FROM:	FLAT Ply: 1 Qty: 6	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T41	Cust: R 9316 JRef: 1XH93160007 T151 DrwNo: 132.22.1629.43327 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.274 I 999 360 VERT(CL): 0.510 I 565 240 HORZ(LL): 0.065 G - - HORZ(TL): 0.121 G - - Creep Factor: 2.0 Max TC CSI: 0.568 Max BC CSI: 0.637 Max Web CSI: 0.761 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /81 /128 G 1542 /- /- /732 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 182 -3531 C - D 182 -3530

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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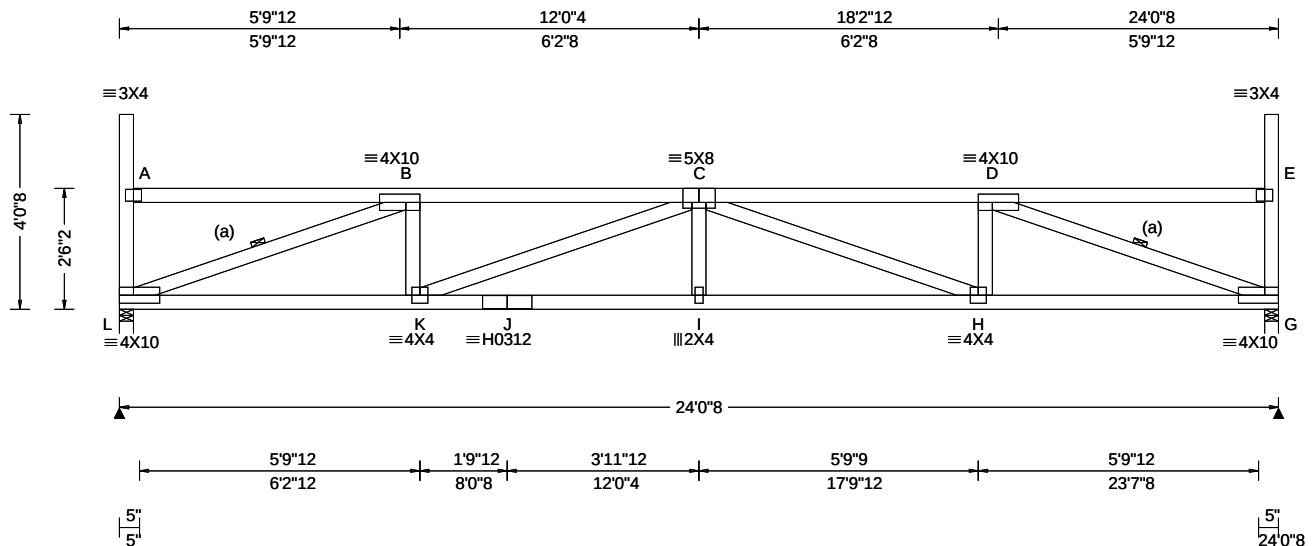
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35510 / FROM:	FLAT Qty: 6	Ply: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T43	Cust: R 9316 JRef: 1XH93160007 T161 DrwNo: 132.22.1629.41944 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.255 I 999 360 VERT(CL): 0.475 I 607 240 HORZ(LL): 0.063 G - - HORZ(TL): 0.116 G - - Creep Factor: 2.0 Max TC CSI: 0.540 Max BC CSI: 0.625 Max Web CSI: 0.741 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /81 /126 G 1542 /- /- /731 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 176 - 3401 C - D 177 - 3400

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

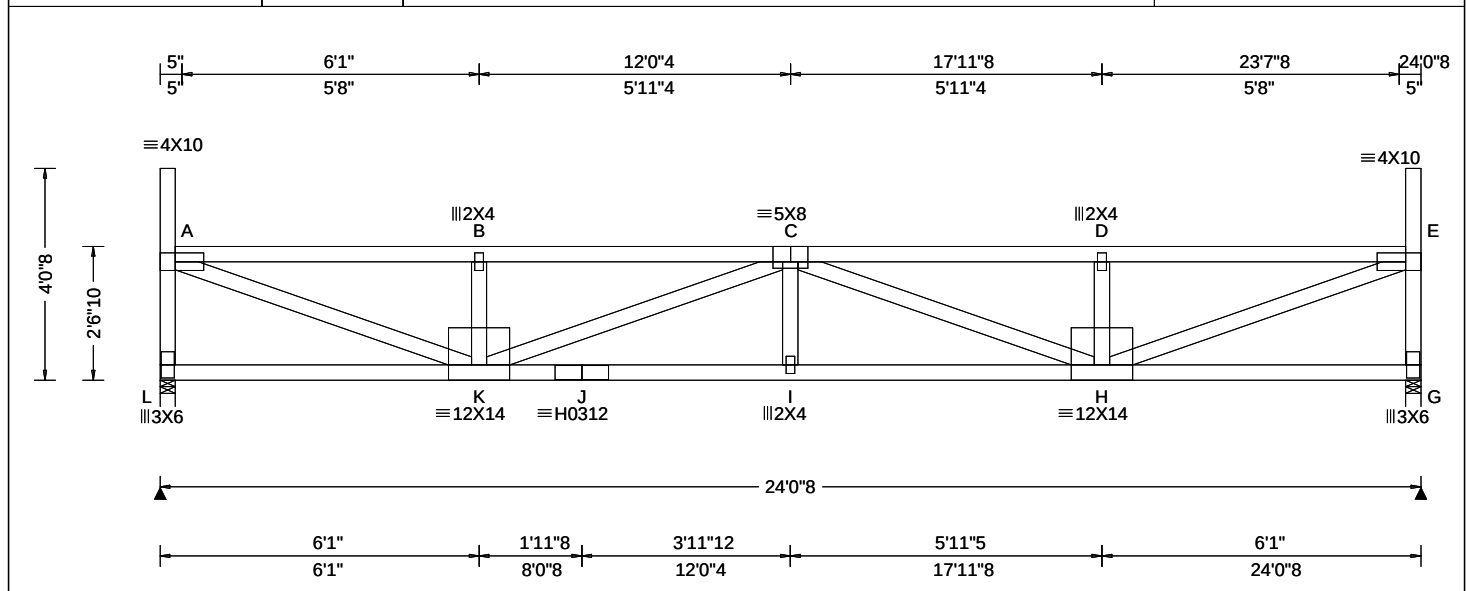


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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35512 / FROM:	FLAT Ply: 1 Qty: 6	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T44	Cust: R 9316 JRef: 1XIH93160007 T143 DrwNo: 132.22.1629.43718 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.55 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.260 I 999 360 VERT(CL): 0.482 I 597 240 HORZ(LL): 0.048 A - - HORZ(TL): 0.089 A - - Creep Factor: 2.0 Max TC CSI: 0.693 Max BC CSI: 0.608 Max Web CSI: 0.838 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1542 /- /- /731 /82 /125 G 1542 /- /- /731 /82 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 178 -3318 C - D 177 -3312 B - C 177 -3313 D - E 178 -3317

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

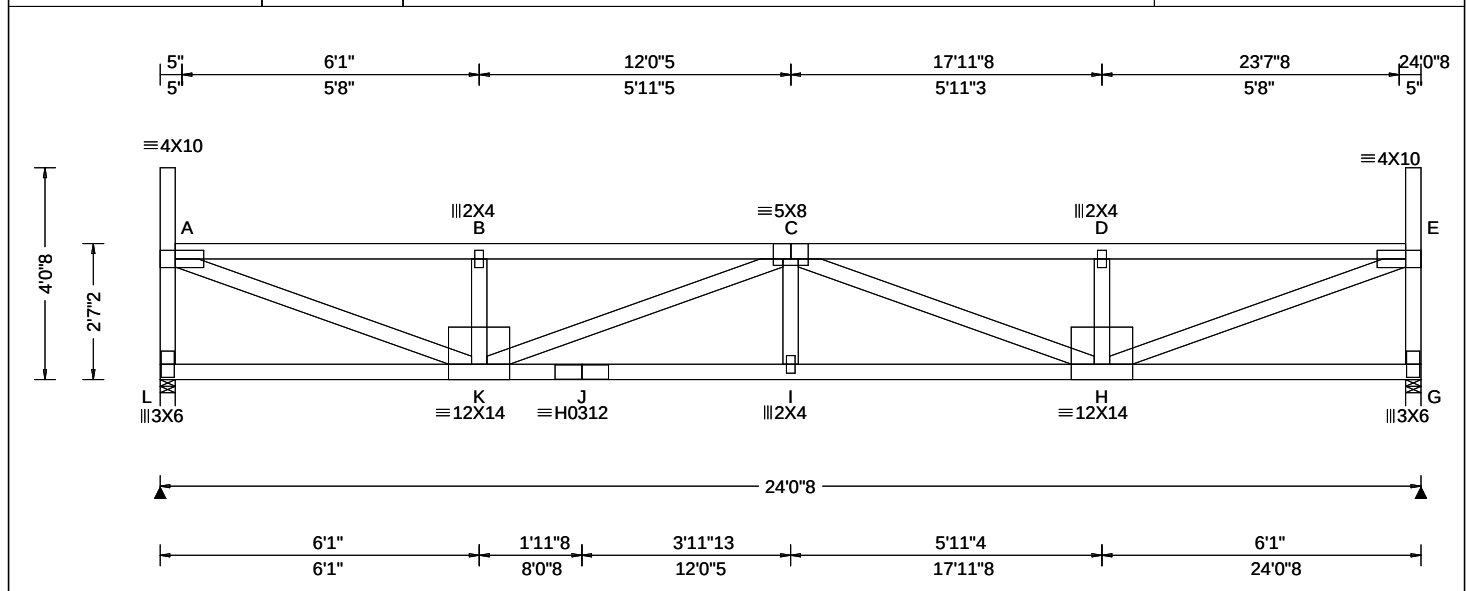


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35514 / FROM:	FLAT Ply: 1 Qty: 6	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T45	Cust: R 9316 JRef: 1XH93160007 T153 DrwNo: 132.22.1629.41521 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.251 I 999 360 VERT(CL): 0.466 I 618 240 HORZ(LL): 0.047 A - - HORZ(TL): 0.088 A - - Creep Factor: 2.0 Max TC CSI: 0.676 Max BC CSI: 0.602 Max Web CSI: 0.825 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /82 /124 G 1542 /- /- /731 /82 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 175 -3260 C - D 174 -3253 B - C 175 -3255 D - E 175 -3258

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

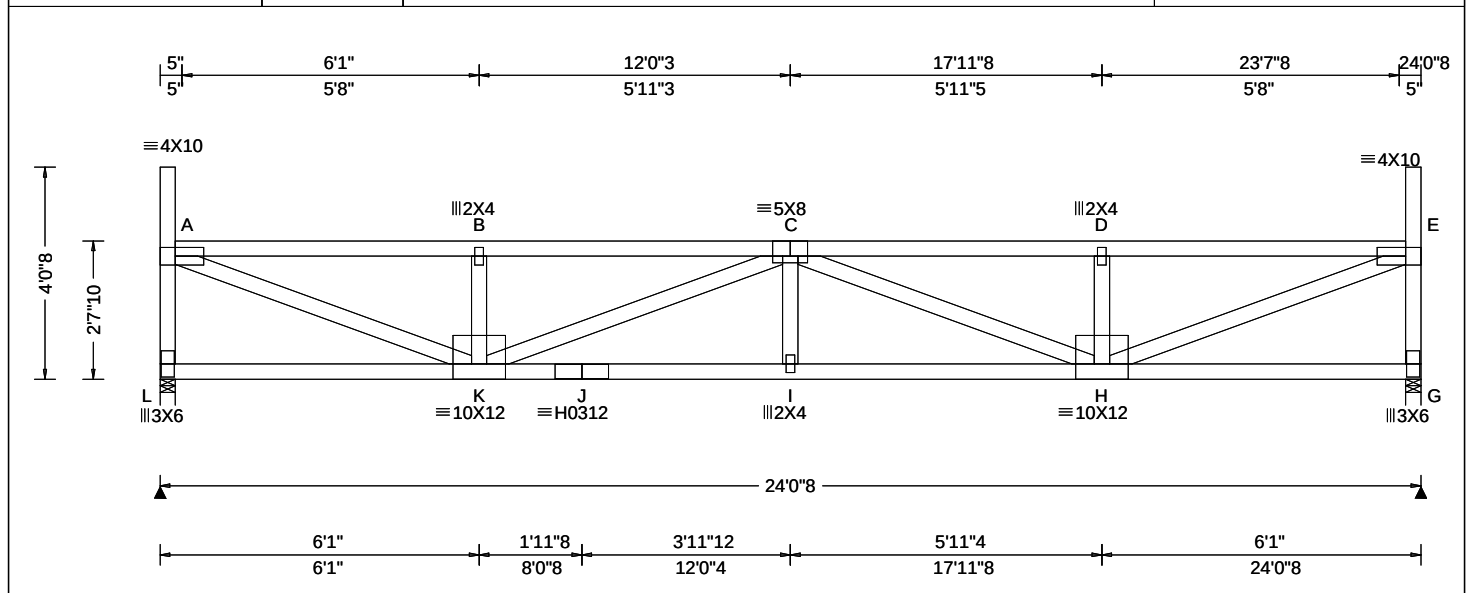


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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35516 / FROM:	FLAT Ply: 1 Qty: 6	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T46	Cust: R 9316 JRef: 1XIH93160007 T148 DrwNo: 132.22.1629.39214 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.243 I 999 360 VERT(CL): 0.451 I 639 240 HORZ(LL): 0.046 A - - HORZ(TL): 0.086 A - - Creep Factor: 2.0 Max TC CSI: 0.663 Max BC CSI: 0.597 Max Web CSI: 0.813 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /82 /122 G 1542 /- /- /731 /82 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 173 - 3203 C - D 172 - 3197 B - C 172 - 3198 D - E 172 - 3202

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.

End verticals exposed to wind pressure. Deflection
meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

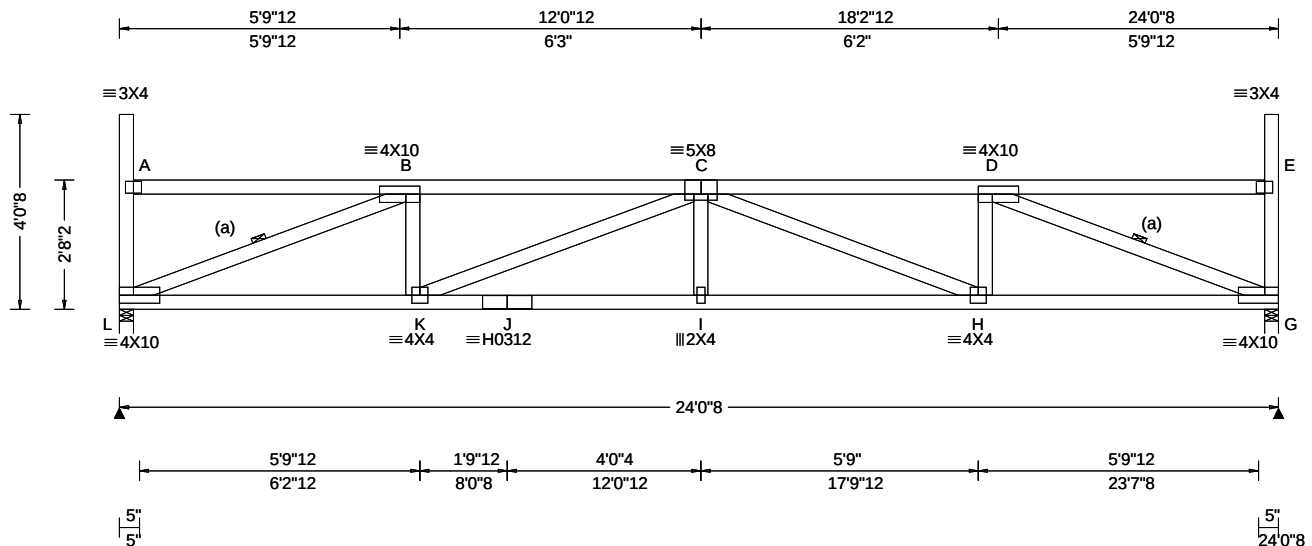
Truss must be installed as shown with top chord up.



05/12/2022

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SEQN: 35518 / FROM:	FLAT Qty: 6	Ply: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T47	Cust: R 9316 JRef: 1XH93160007 T163 DrwNo: 132.22.1629.41439 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.223 I 999 360 VERT(CL): 0.415 I 694 240 HORZ(LL): 0.058 G - - HORZ(TL): 0.108 G - - Creep Factor: 2.0 Max TC CSI: 0.516 Max BC CSI: 0.604 Max Web CSI: 0.706 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /82 /121 G 1542 /- /- /731 /82 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 166 -3169 C - D 166 -3166

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

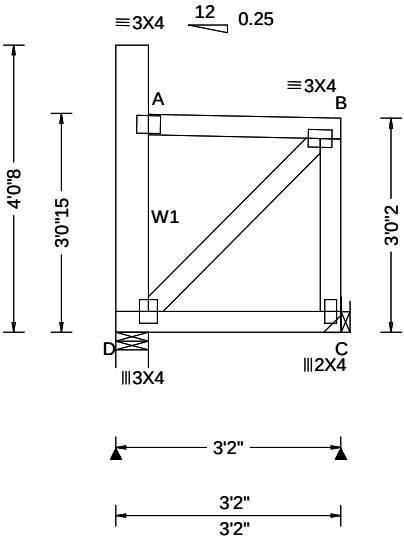


05/12/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35520 / FROM:	MONO Ply: 1 Qty: 17	Job Number: JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48	Cust: R 9316 JRef:1XfH93160007 T139 DrwNo: 132.22.1629.43389 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	176	/-	/-	/111	/52	/78
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.001 B 999 240	C	204	/-	/-	/149	/46	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 22.04 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = - Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.139	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.123	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.028							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: not in 29.00 ft	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

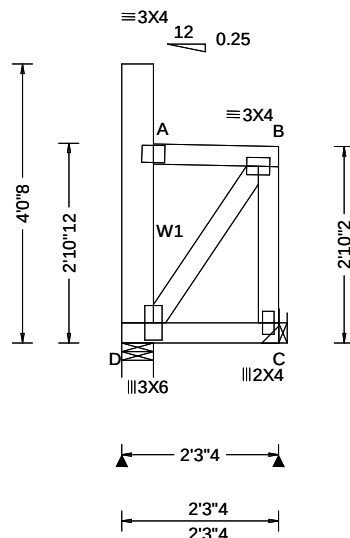
Truss must be installed as shown with top chord up.



05/12/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 35522 / FROM:	MONO Ply: 1 Qty: 48	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T49	Cust: R 9316 JRef: 1XIH93160007 T230 DrwNo: 132.22.1629.42283 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.87 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.065 Max BC CSI: 0.063 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity D 119 /- /- /98 /77 /80 C 144 /- /- /147 /60 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.16	7.63 1.81

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



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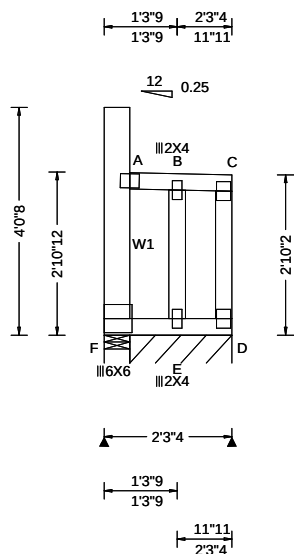
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35523 / FROM:	MONO Qty: 12	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T50	Cust: R 9316 JRef: 1XIH93160007 T128 DrwNo: 132.22.1629.41690 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.87 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.006 A 999 360 VERT(CL): 0.008 A 999 240 HORZ(LL): 0.111 B - - HORZ(TL): 0.128 B - - Creep Factor: 2.0 Max TC CSI: 0.110 Max BC CSI: 0.254 Max Web CSI: 0.115 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 36 /-8 /- /96 /138 /80 D* 139 /- /- /141 /57 /- Wind reactions based on MWFRS F Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = 21.7 Min Req = - Bearings F & F are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.16	7.63 1.81

Where: Lu1 = leeward distance, Lu2 = windward distance

Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.

End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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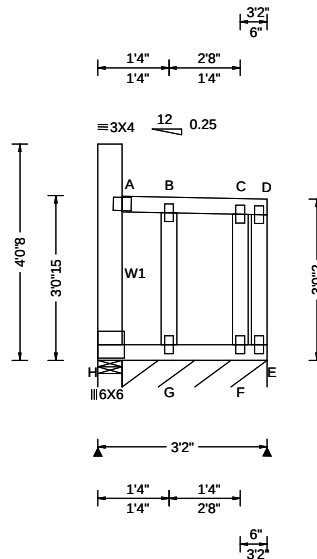
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35524 / FROM:	GABL Ply: 1 Qty: 9	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T51	Cust: R 9316 JRef: 1XIH93160007 T114 DrwNo: 132.22.1629.42952 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF					
				Gravity			Non-Gravity		
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	H	47	/-	/-	/122	/130
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240	E*	123	/-	/-	/106	/43
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.121 C - -						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.142 B - -						
NCBCLL: 0.00	Mean Height: 22.04 ft	Building Code:	Creep Factor: 2.0						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.087						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.243						
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.109						
	C&C Dist a: 3.00 ft	FT/RT: 20(0)/10(0)							
	Loc. from endwall: not in 29.00 ft	Plate Type(s):	VIEW Ver: 21.02.00.1005.17						
	GCp: 0.18	WAVE							
	Wind Duration: 1.60								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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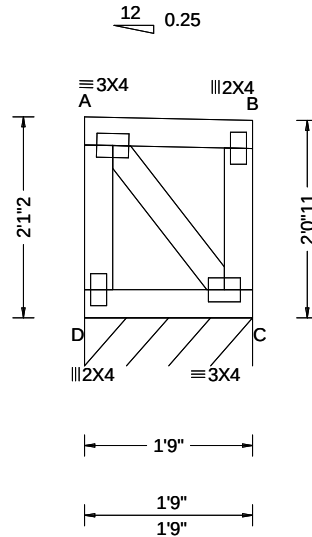
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35527 / FROM:	MONO Ply: 1 Qty: 24	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE01	Cust: R 9316 JRef: 1XIH93160007 T188 DrwNo: 132.22.1629.45561 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.039 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /5 /19 Wind reactions based on MWFRS C Brg Wid = 21.0 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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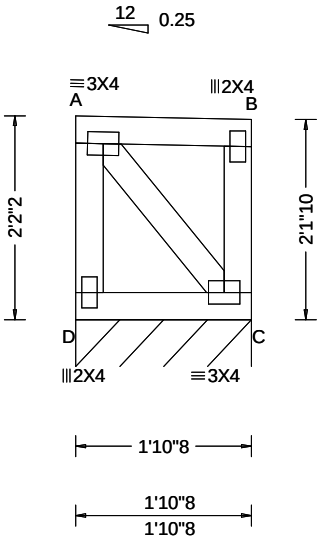
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35529 / FROM:	MONO Ply: 1 Qty: 24	Job Number: JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE03	Cust: R 9316 JRef:1XH93160007 T190 DrwNo: 132.22.1629.46193 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.16 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.023 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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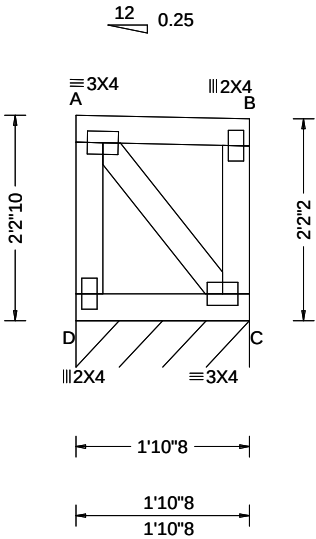
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North Building, 4th Floor
Glenview, IL 60025

SEQN: 35530 / FROM:	MONO Ply: 1 Qty: 24	Job Number: JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE04	Cust: R 9316 JRef:1XH93160007 T192 DrwNo: 132.22.1629.46314 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

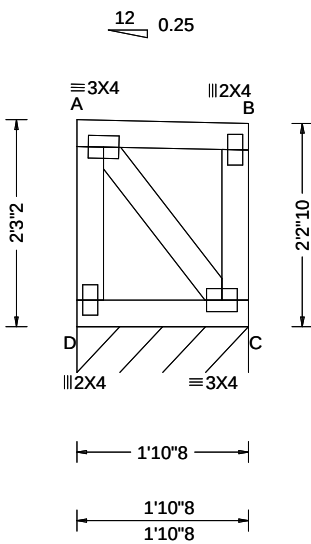
Truss must be installed as shown with top chord up.



05/12/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com ; TPI: tpinst.org ; SBCA: sbcacomponents.com ; ICC: iccsafe.org ; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 35531 / FROM:	MONO Ply: 1 Qty: 24	Job Number: JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE05	Cust: R 9316 JRef:1XH93160007 T215 DrwNo: 132.22.1629.42035 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

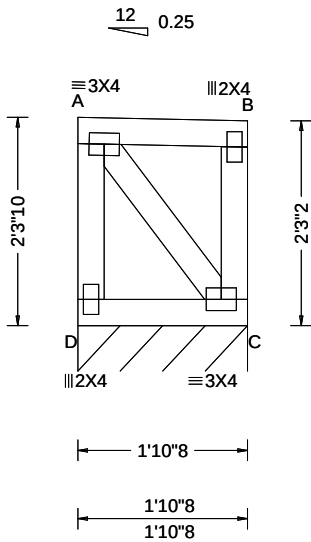
Truss must be installed as shown with top chord up.



05/12/2022

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SEQN: 35532 / FROM:	MONO Ply: 1 Qty: 24	Job Number: JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE06	Cust: R 9316 JRef:1XfH93160007 T219 DrwNo: 132.22.1629.41699 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.28 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.026 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

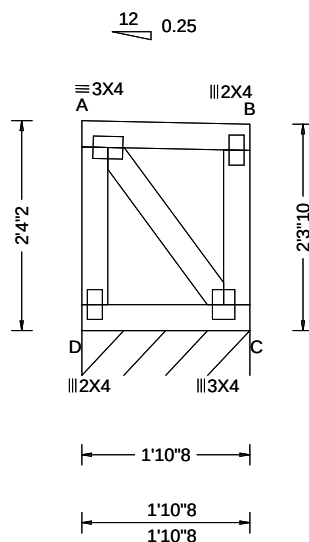
Truss must be installed as shown with top chord up.



05/12/2022

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SEQN: 35533 / FROM:	MONO Ply: 1 Qty: 24	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE07	Cust: R 9316 JRef: 1XIH93160007 T220 DrwNo: 132.22.1629.39215 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.32 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.027 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /5 /21 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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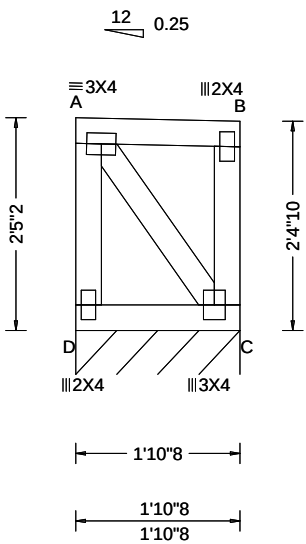
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35535 / FROM:	MONO Ply: 1 Qty: 24	Job Number: JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE09	Cust: R 9316 JRef:1XH93160007 T222 DrwNo: 132.22.1629.44992 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.41 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.029 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

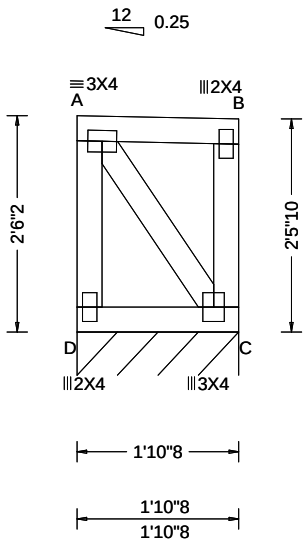
Truss must be installed as shown with top chord up.



05/12/2022

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SEQN: 35537 / FROM:	MONO Ply: 1 Qty: 24	Job Number: JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE11	Cust: R 9316 JRef:1XH93160007 T224 DrwNo: 132.22.1629.43081 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.49 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.032 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

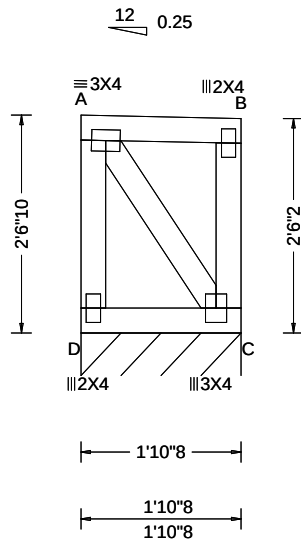
Truss must be installed as shown with top chord up.



05/12/2022

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SEQN: 35538 / FROM:	MONO Ply: 1 Qty: 24	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE12	Cust: R 9316 JRef: 1XIH93160007 T225 DrwNo: 132.22.1629.41838 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /23 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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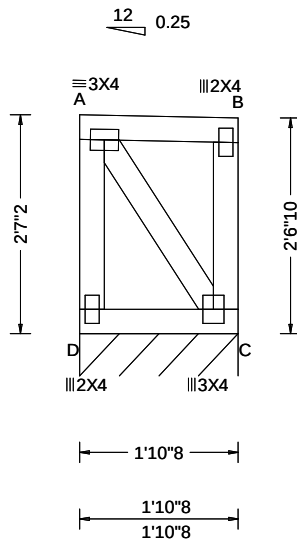
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SEQN: 35539 / FROM:	MONO Qty: 24	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE13	Cust: R 9316 JRef: 1XH93160007 T226 DrwNo: 132.22.1629.41404 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /23 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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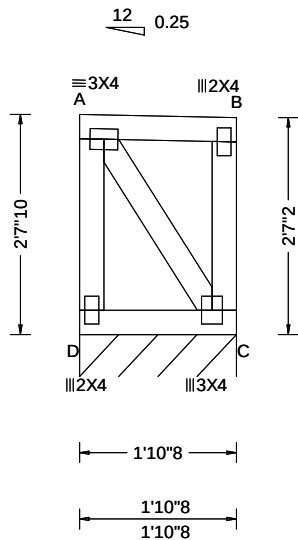
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SEQN: 35540 / FROM:	MONO Ply: 1 Qty: 24	Job Number: JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE14	Cust: R 9316 JRef:1XH93160007 T227 DrwNo: 132.22.1629.42025 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.036 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

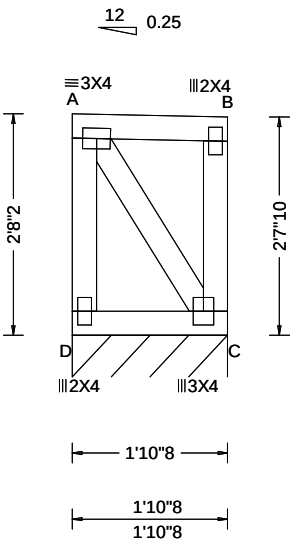


05/12/2022

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SEQN: 35541 / FROM:	MONO Ply: 1 Qty: 24	Job Number: JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE15	Cust: R 9316 JRef:1XH93160007 T228 DrwNo: 132.22.1629.43408 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.037 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

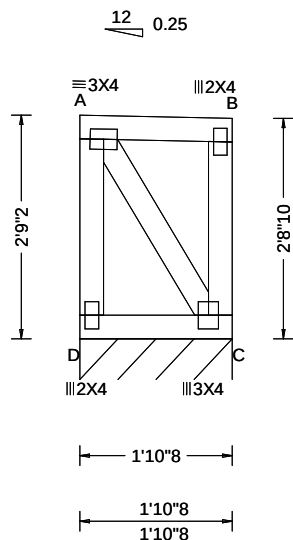


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SEQN: 35543 / FROM:	MONO Ply: 1 Qty: 17	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE17	Cust: R 9316 JRef: 1XIH93160007 T251 DrwNo: 132.22.1629.42633 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /25 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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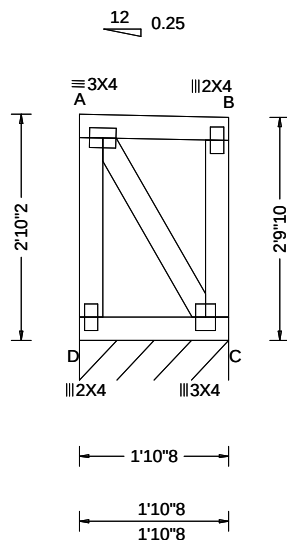
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SEQN: 35545 / FROM:	MONO Ply: 1 Qty: 17	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE19	Cust: R 9316 JRef: 1XH93160007 T253 DrwNo: 132.22.1629.41930 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.82 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /26 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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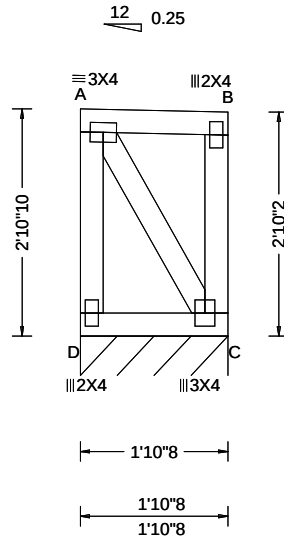
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155 Harlem Ave
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Glenview, IL 60025

SEQN: 35546 / FROM:	MONO Qty: 5	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE20	Cust: R 9316 JRef: 1XIH93160007 T254 DrwNo: 132.22.1629.39197 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.044 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /27 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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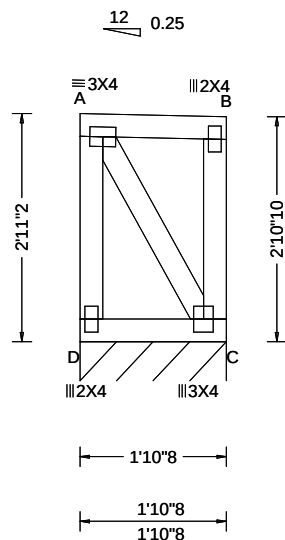
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Glenview, IL 60025

SEQN: 35547 / FROM:	MONO Qty: 5	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE21	Cust: R 9316 JRef: 1XH93160007 T255 DrwNo: 132.22.1629.42389 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.046 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /28 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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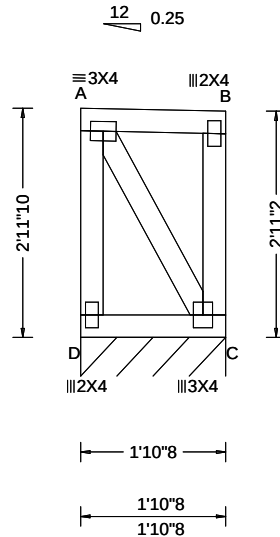
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35548 / FROM:	MONO Qty: 2	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE22	Cust: R 9316 JRef: 1XfH93160007 T256 DrwNo: 132.22.1629.44657 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.95 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.047 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /28 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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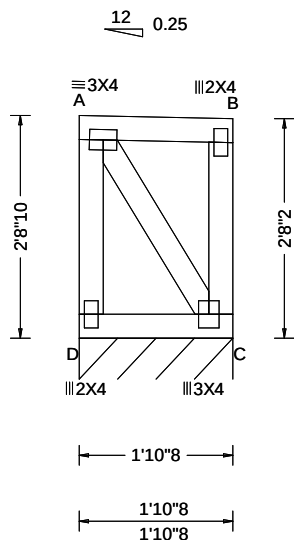
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35542 / FROM:	MONO Qty: 5	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE16	Cust: R 9316 JRef: 1XIH93160007 T231 DrwNo: 132.22.1629.41332 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.038 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /25 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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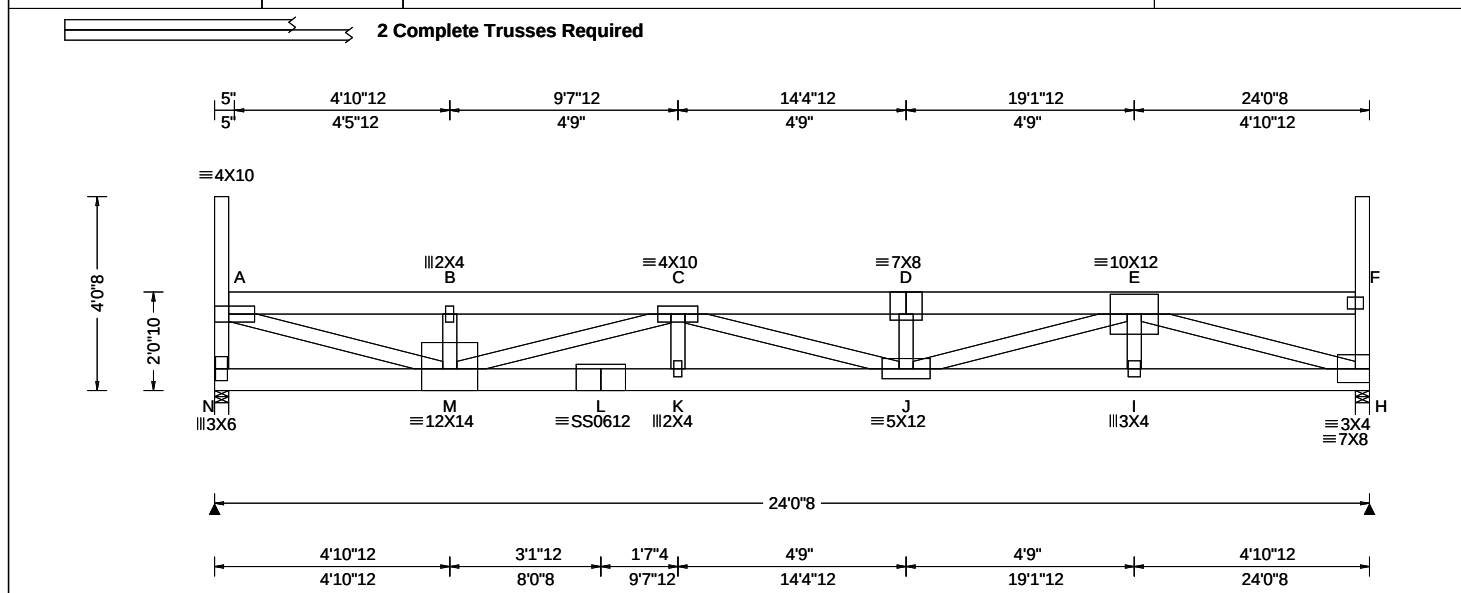
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35554 / FROM:	FLAT Qty: 9	Ply: 2	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T32	Cust: R 9316 JRef: 1XIH93160007 T30 / DrwNo: 132.22.1629.43583 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.258 D 999 360 VERT(CL): 0.479 D 601 240 HORZ(LL): 0.039 H - - HORZ(TL): 0.073 H - - Creep Factor: 2.0 Max TC CSI: 0.228 Max BC CSI: 0.646 Max Web CSI: 0.891 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 2493 - / - / - / 397 - / - H 2484 - / - / - / 387 - / - Wind reactions based on MWFRS N Brg Wid = 3.5 Min Req = 2.0 (Truss) H Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 520 - 3179 C - D 755 - 4648 B - C 519 - 3171 D - E 755 - 4648

Lumber

Top chord: 2x6 SPF 1650F-1.5E;
Bot chord: 2x6 SPF 1650F-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 10.00" o.c.
Webs: 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 60 plf at 0.00 to 60 plf at 24.04
BC: 173 lb Conc. Load at 1.98, 3.98, 7.98, 9.98
11.98, 13.98, 21.98
BC: 170 lb Conc. Load at 5.98, 15.98, 17.98, 19.98

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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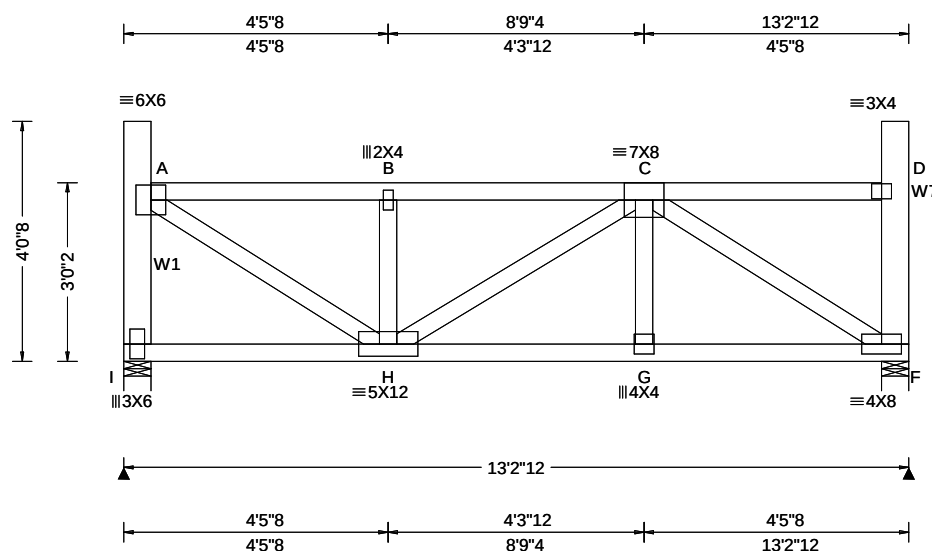
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35551 FROM:	FLAT Ply: 1 Qty: 4	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T09	Cust: R 9316 JRef: 1XIH93160007 T11 DrwNo: 132.22.1642.03370 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.038 B 999 360 VERT(CL): 0.071 B 999 240 HORZ(LL): 0.012 A - - HORZ(TL): 0.022 A - - Creep Factor: 2.0 Max TC CSI: 0.313 Max BC CSI: 0.556 Max Web CSI: 0.834 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 1464 -/- /- /155 -/ F 1371 -/- /- /118 -/ Wind reactions based on MWFRS I Brg Wid = 5.5 Min Req = 1.9 (Truss) F Brg Wid = 5.5 Min Req = 1.7 (Truss) Bearings I & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 174 -1777 B - C 173 -1772

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1, W7 2x6 SPF 1650f-1.5E;

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 60 plf at 0.00 to 60 plf at 13.23
BC: 204 lb Conc. Load at 1.17, 3.17, 5.17, 11.17
BC: 183 lb Conc. Load at 7.17, 9.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

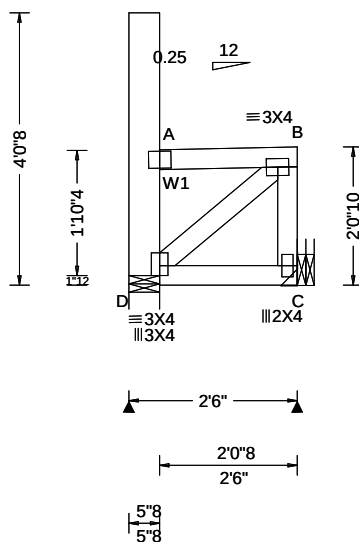


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35945 / FROM: JRQ	MONO Ply: 1 Qty: 67	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: J02A	Cust: R 9316 JRef: 1XIH93160007 T35 / DrwNo: 132.22.1629.41590 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.03 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.102 Max BC CSI: 0.079 Max Web CSI: 0.106 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 122 /- /- /98 /75 /61 C 170 /- /- /144 /55 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Support) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	2.03	30.67 2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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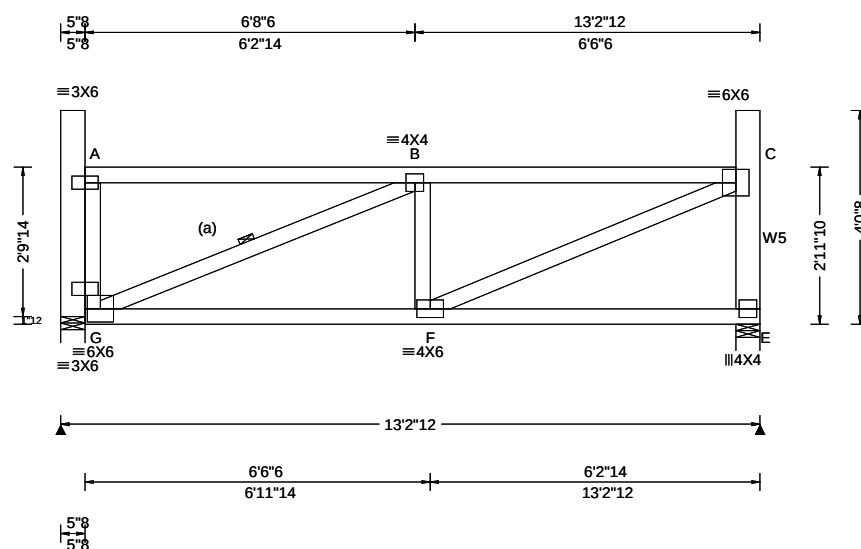
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35931 / FROM: JRQ	MONO Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T08A	Cust: R 9316 JRef: 1XfH93160007 T8 / DrwNo: 132.22.1629.43441 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.97 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.036 B 999 360 VERT(CL): 0.067 B 999 240 HORZ(LL): 0.007 E - - HORZ(TL): 0.013 E - - Creep Factor: 2.0 Max TC CSI: 0.705 Max BC CSI: 0.887 Max Web CSI: 0.297 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL G 823 /- /- /395 /48 /78 E 805 /- /- /382 /45 /- Non-Gravity Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 98 - 1198

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11965.47" if used)

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

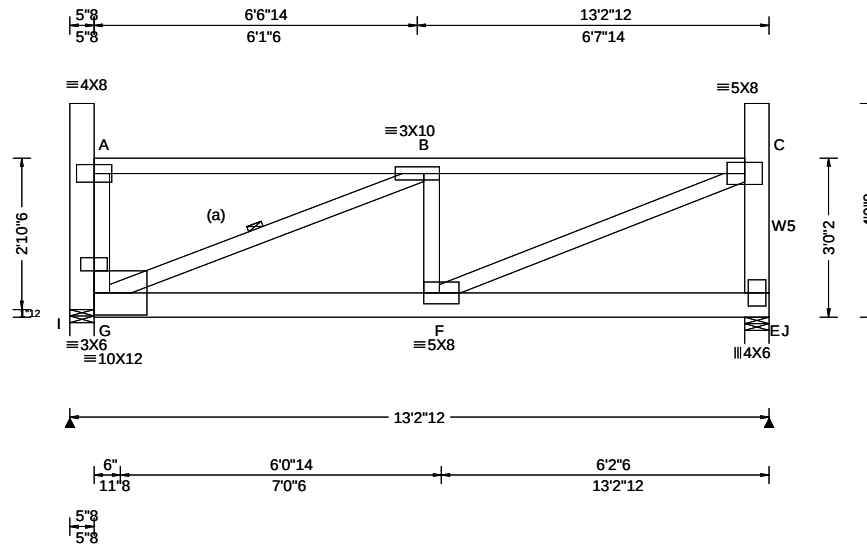
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35552 FROM:	MONO Qty: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T09B	Cust: R 9316 JRef: 1XfH93160007 T21 DrwNo: 132.22.1642.17403 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.057 F 999 360 VERT(CL): 0.106 F 999 240 HORZ(LL): 0.008 A - - HORZ(TL): 0.015 A - - Creep Factor: 2.0 Max TC CSI: 0.779 Max BC CSI: 0.649 Max Web CSI: 0.515 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 1427 /- /- /- /68 /- J 1317 /- /- /- /88 /- Non-Gravity Wind reactions based on MWFRS I Brg Wid = 5.5 Min Req = 1.5 (Support) J Brg Wid = 5.5 Min Req = 2.1 (Truss) Bearings I & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 109 - 2065

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 12.31
BC: From 60 plf at 0.00 to 60 plf at 12.77
BC: 183 lb Conc. Load at 0.71, 2.71, 4.71, 6.71
8.71
BC: 204 lb Conc. Load at 10.71

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11970.89" if used)

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

G - F 2023 - 108

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

A - G 1257 - 57 F - C 2100 - 108
G - A 68 - 1429 C - E 54 - 1009
G - B 114 - 2134



05/12/2022

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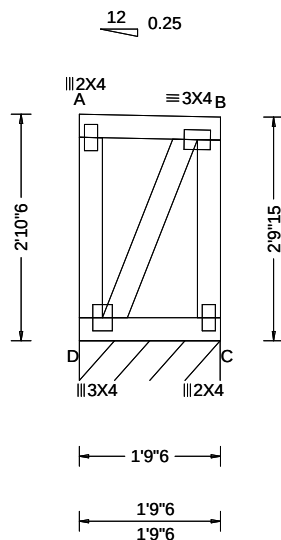
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35477 / FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T19A	Cust: R 9316 JRef: 1XfH93160007 T19 / DrwNo: 132.22.1629.42976 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.99 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.048 Max BC CSI: 0.041 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 130 /- /- /61 /6 /28 Wind reactions based on MWFRS D Brg Wid = 21.4 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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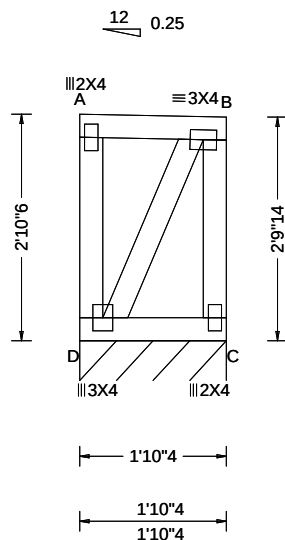
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35936 / FROM:	MONO Qty: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T16A	Cust: R 9316 JRef: 1XfH93160007 T16 / DrwNo: 132.22.1629.41854 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.99 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.052 Max BC CSI: 0.045 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /27 Wind reactions based on MWFRS C Brg Wid = 22.3 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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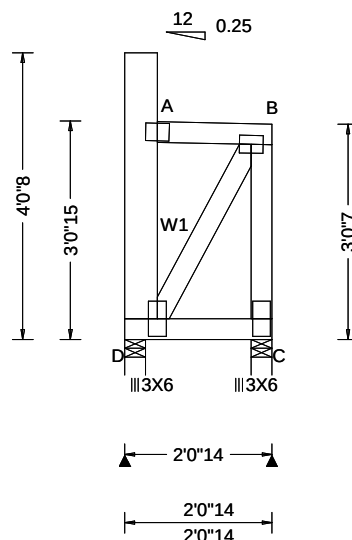
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35472 FROM:	GABL Ply: 1 Qty: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T14A	Cust: R 9316 JRef: 1XIH93160007 T14 DrwNo: 132.22.1642.30863 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.001 B 999 240 HORZ(LL): 0.001 A - - HORZ(TL): 0.002 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.052 Max Web CSI: 0.059 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 106 /- /- /120 /91 /89 C 131 /- /- /153 /78 /- Wind reactions based on MWFRS D Brg Wid = 3.5 Min Req = 1.5 (Truss) C Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings D & C are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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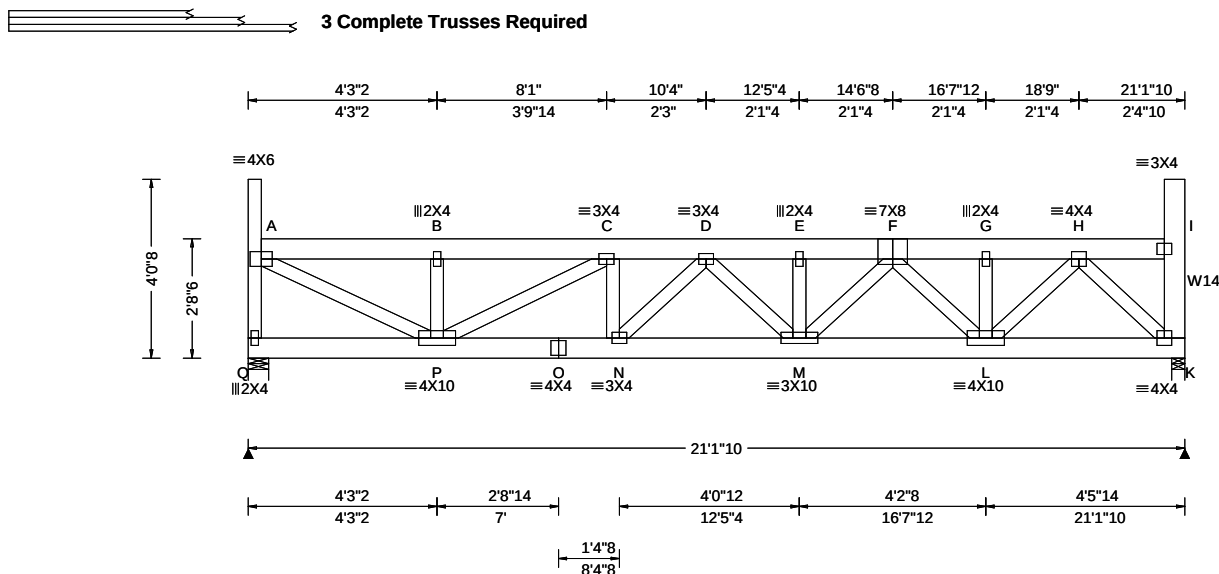
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35558 / FROM:	FLAT Qty: 3	Ply: 3 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T01A	Cust: R 9316 JRef: 1XH93160007 T40 / DrwNo: 132.22.1629.42903 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.060 D 999 360 VERT(CL): 0.111 D 999 240 HORZ(LL): 0.014 K - - HORZ(TL): 0.026 K - - Creep Factor: 2.0 Max TC CSI: 0.054 Max BC CSI: 0.283 Max Web CSI: 0.291 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Q 1981 - / - / - / 117 - / - K 2325 - / - / - / 149 - / - Wind reactions based on MWFRS Q Brg Wid = 5.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings Q & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 68 - 1106 E - F 154 - 2215 B - C 68 - 1102 F - G 93 - 1390 C - D 116 - 1792 G - H 93 - 1390 D - E 154 - 2215

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs: 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 60 plf at 0.00 to 60 plf at 21.14
BC: 1611 lb Conc. Load at 12.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.



05/12/2022

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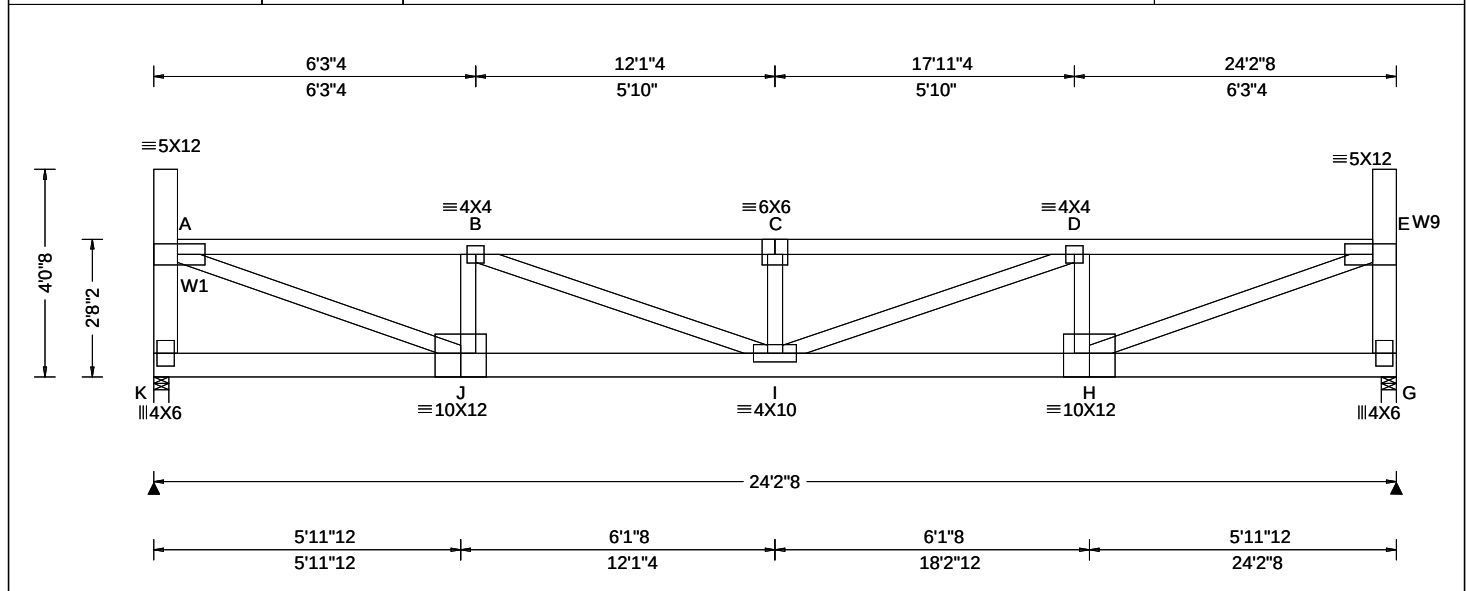
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35519 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T47A	Cust: R 9316 JRef: 1XH93160007 T39 DrwNo: 132.22.1644.51183 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.254 C 999 360 VERT(CL): 0.473 C 614 240 HORZ(LL): 0.046 A - - HORZ(TL): 0.085 A - - Creep Factor: 2.0 Max TC CSI: 0.664 Max BC CSI: 0.461 Max Web CSI: 0.801 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 -/- /730 /80 /118 G 1541 -/- /730 /80 -/- Non-Gravity Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.5 (Truss) G Brg Wid = 3.5 Min Req = 2.5 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 190 -3203 C - D 236 -4203 B - C 236 -4203 D - E 190 -3203

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.36	14.50	3.50
23.75	0.00	23.29	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

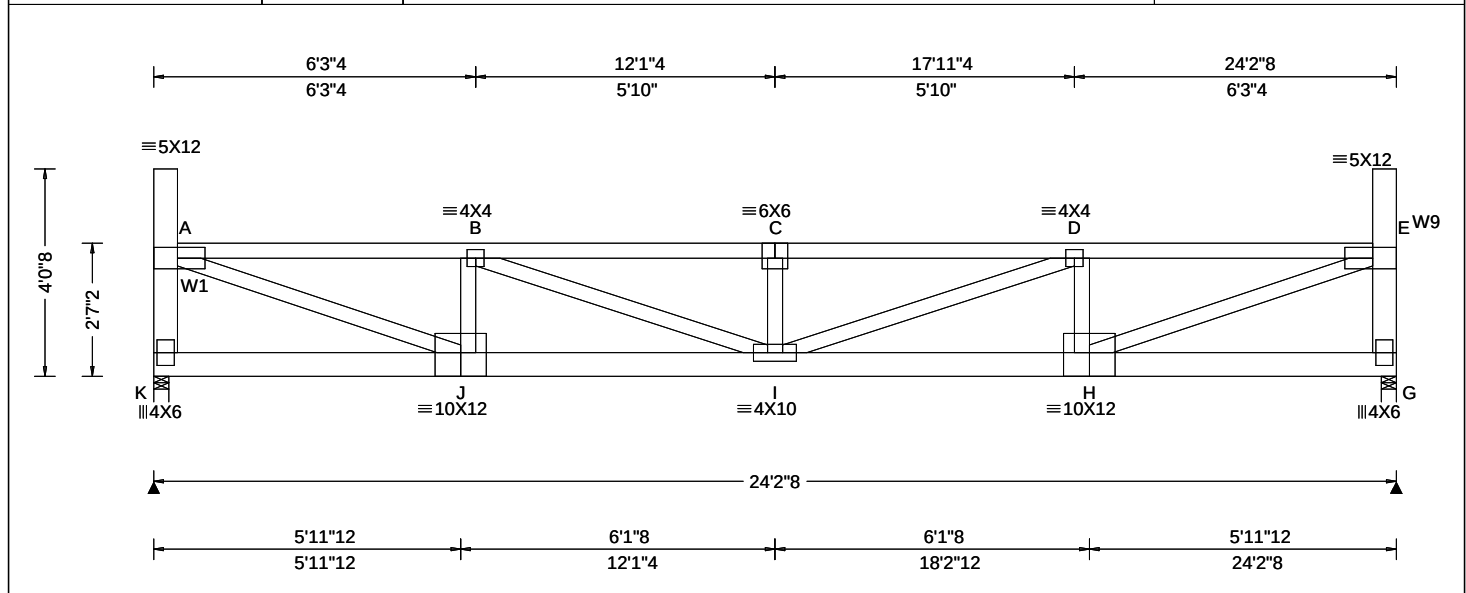


05/12/2022

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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35515 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T45A	Cust: R 9316 JRef: 1XH93160007 T29 DrwNo: 132.22.1644.38410 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.272 C 999 360 VERT(CL): 0.506 C 573 240 HORZ(LL): 0.047 A - - HORZ(TL): 0.088 A - - Creep Factor: 2.0 Max TC CSI: 0.689 Max BC CSI: 0.479 Max Web CSI: 0.827 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 - / - / 731 / 80 / 120 G 1541 - / - / 731 / 80 / - Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 195 - 3320 C - D 243 - 4355 B - C 243 - 4355 D - E 195 - 3320

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.45	17.27	4.16
23.75	0.00	23.29	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

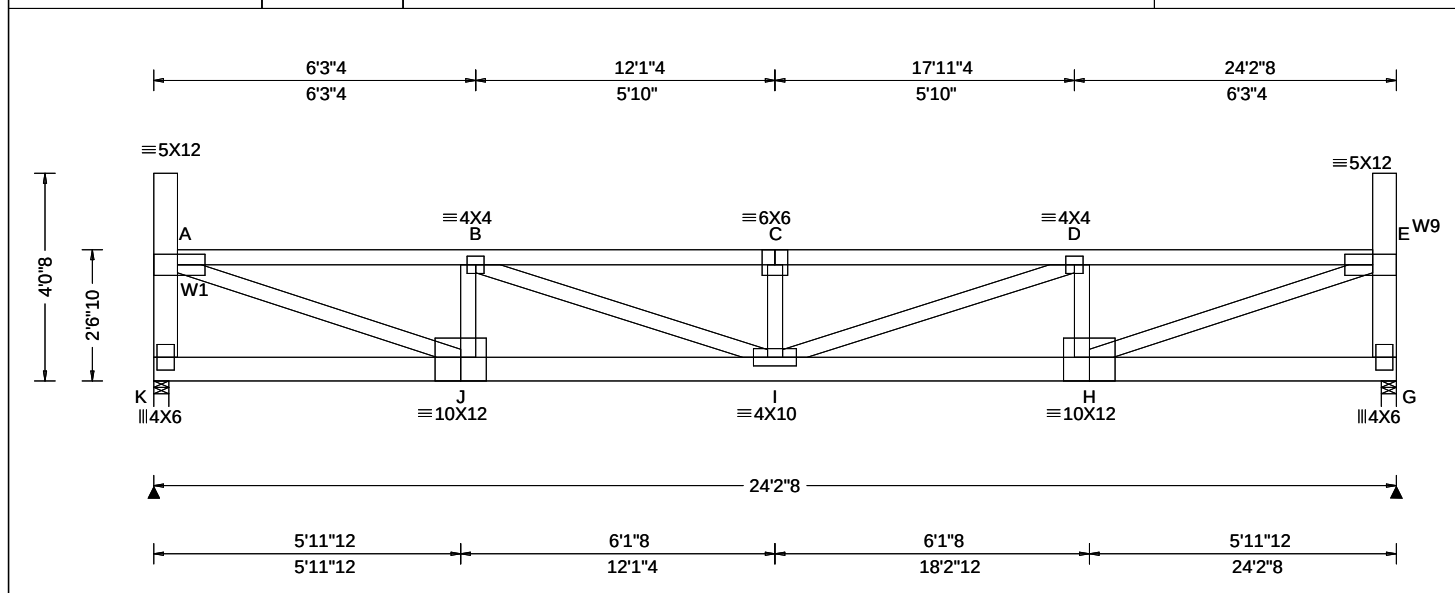


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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35513 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T44A	Cust: R 9316 JRef: 1XIH93160007 T32 DrwNo: 132.22.1644.30937 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.55 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.282 C 999 360 VERT(CL): 0.524 C 553 240 HORZ(LL): 0.048 A - - HORZ(TL): 0.089 A - - Creep Factor: 2.0 Max TC CSI: 0.703 Max BC CSI: 0.488 Max Web CSI: 0.840 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 -/- /731 /80 /121 G 1541 -/- /731 /80 -/ Non-Gravity Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 198 -3381 C - D 247 -4436 B - C 247 -4436 D - E 198 -3381

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.49	18.65	4.50
23.75	0.00	23.29	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

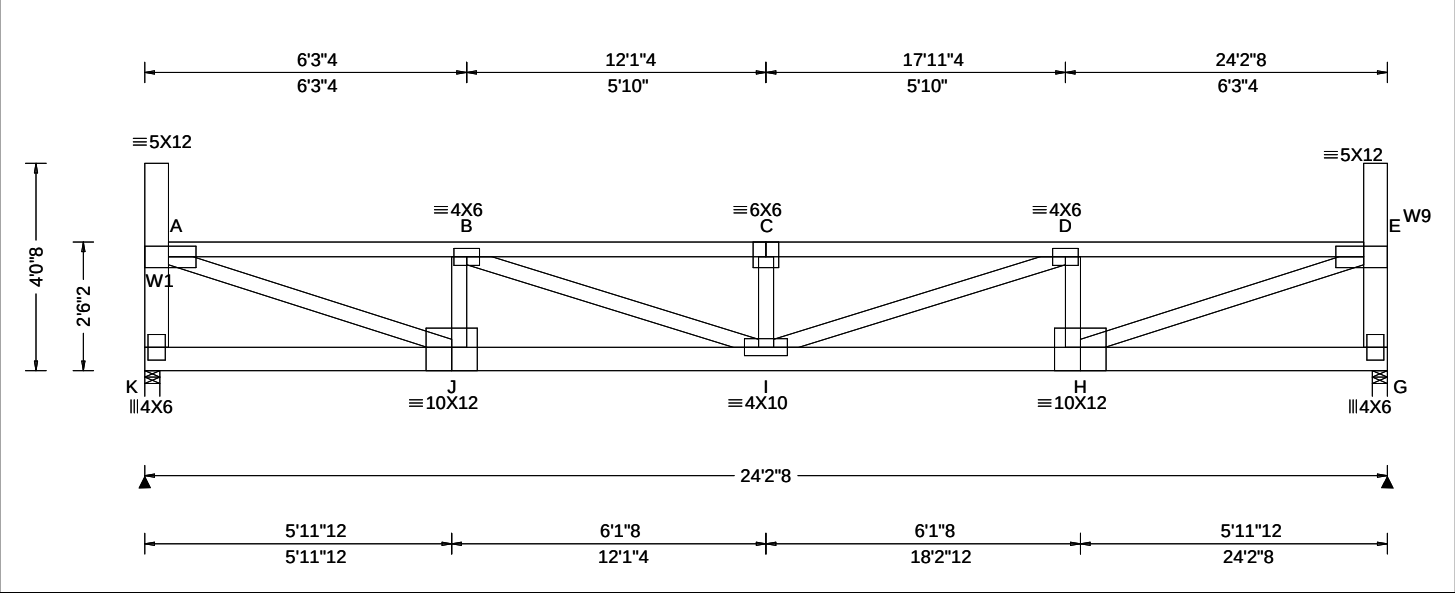


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35511 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T43A	Cust: R 9316 JRef:1XfH93160007 T24 DrwNo: 132.22.1644.25580 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.292 C 993 360 VERT(CL): 0.544 C 534 240 HORZ(LL): 0.049 A - - HORZ(TL): 0.091 A - - Creep Factor: 2.0 Max TC CSI: 0.733 Max BC CSI: 0.498 Max Web CSI: 0.854 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /731 /79 /122 G 1541 /- /- /731 /79 /- Non-Gravity Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 201 -3444 C - D 251 -4519 B - C 251 -4519 D - E 201 -3444

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1,W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.29 1.53 20.04 4.83
23.75 0.00 23.29 1.53 20.04 4.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

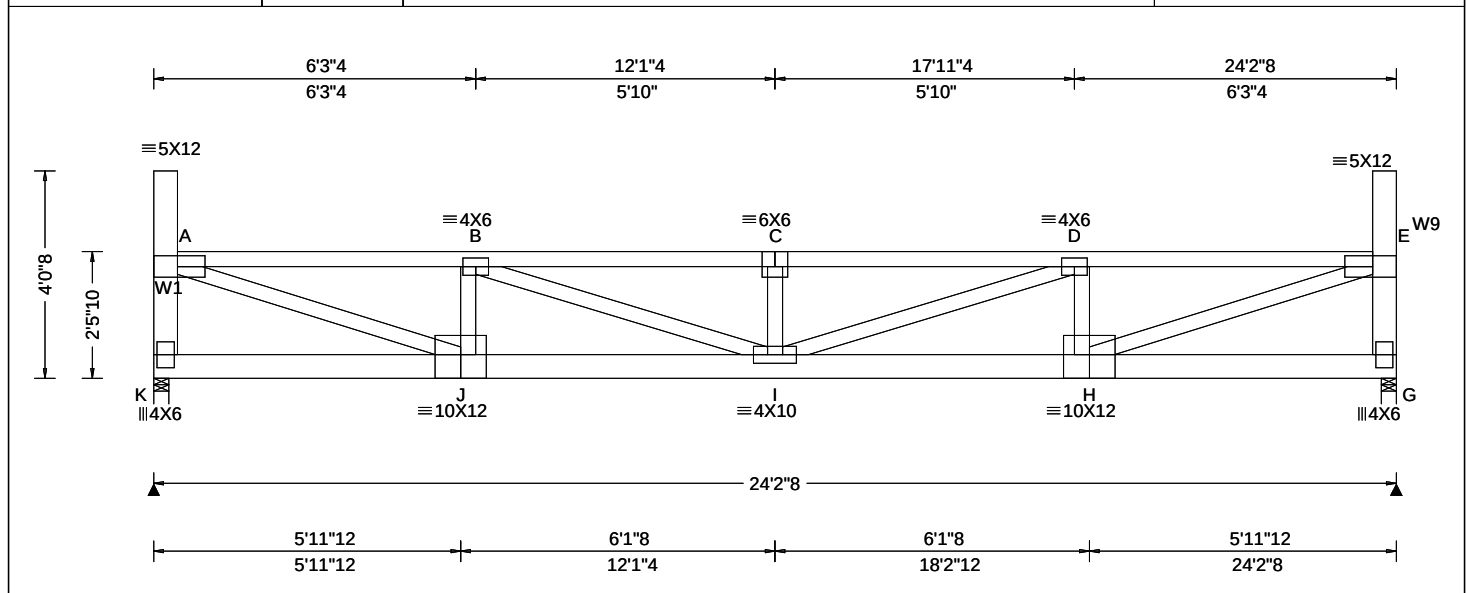
Truss must be installed as shown with top chord up.



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SEQN: 35509 FROM:	FLAT Qty: 3	Ply: 1	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T42A	Cust: R 9316 JRef: 1XH93160007 T34 DrwNo: 132.22.1644.14913 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.303 C 958 360 VERT(CL): 0.564 C 515 240 HORZ(LL): 0.050 A - - HORZ(TL): 0.092 A - - Creep Factor: 2.0 Max TC CSI: 0.766 Max BC CSI: 0.508 Max Web CSI: 0.869 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity K 1541 /- /- /731 /79 /123 G 1541 /- /- /731 /79 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 184 -3510 C - D 200 -4605 B - C 200 -4605 D - E 184 -3510

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.57	21.42	5.16
23.75	0.00	23.29	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

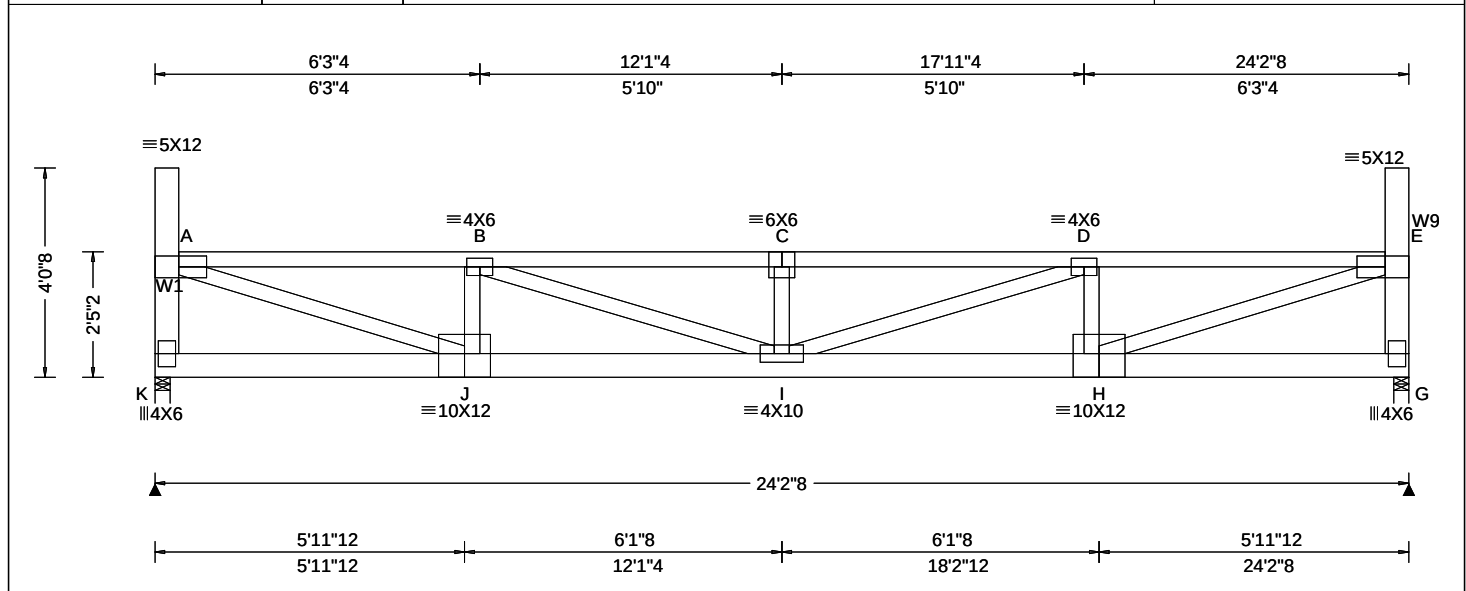


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35507 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T41A	Cust: R 9316 JRef: 1XH93160007 T31 DrwNo: 132.22.1644.06800 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.315 C 922 360 VERT(CL): 0.585 C 496 240 HORZ(LL): 0.050 A - - HORZ(TL): 0.094 A - - Creep Factor: 2.0 Max TC CSI: 0.801 Max BC CSI: 0.519 Max Web CSI: 0.884 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity K 1541 /- /- /731 /79 /125 G 1541 /- /- /731 /79 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 187 -3578 C - D 203 -4695 B - C 203 -4695 D - E 188 -3578

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.61	22.80	5.50
23.75	0.00	23.29	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.31" DL: 0.27". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

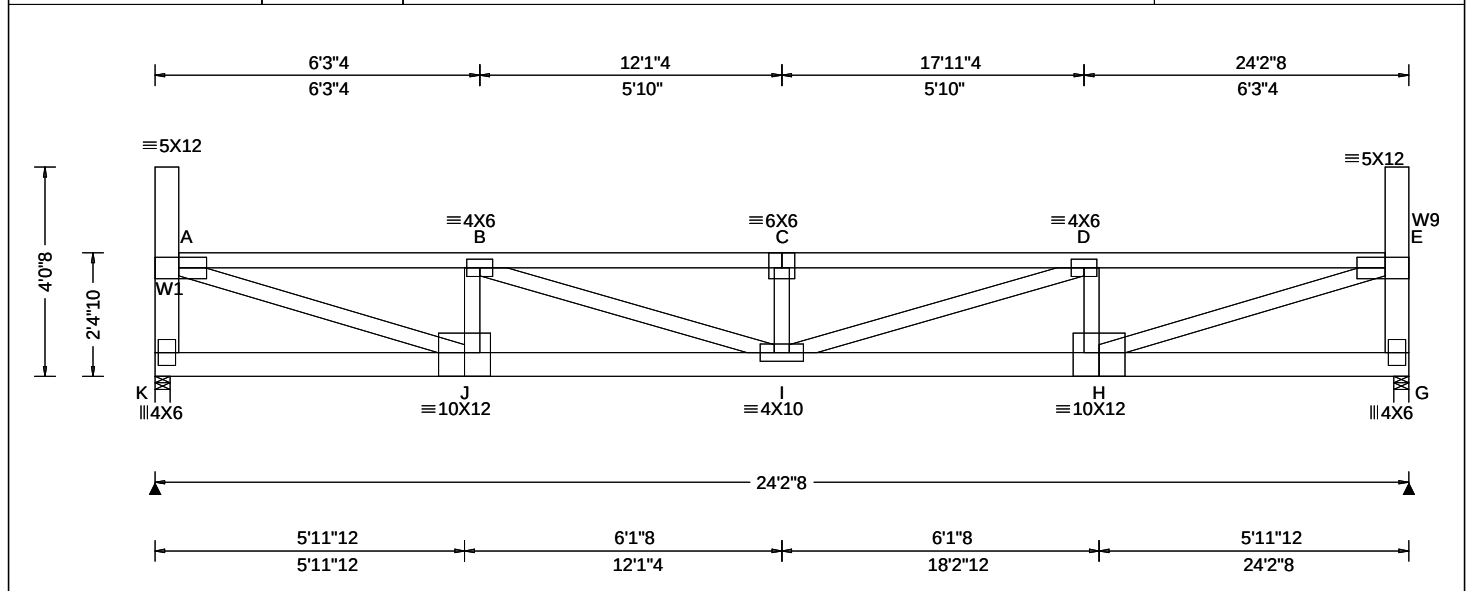


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North Building, 4th Floor
Glenview, IL 60025

SEQN: 35505 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T40A	Cust: R 9316 JRef: 1XIH93160007 T27 DrwNo: 132.22.1643.59780 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.327 C 888 360 VERT(CL): 0.608 C 477 240 HORZ(LL): 0.051 A - - HORZ(TL): 0.096 A - - Creep Factor: 2.0 Max TC CSI: 0.839 Max BC CSI: 0.530 Max Web CSI: 0.900 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /731 /79 /126 G 1541 /- /- /731 /79 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 190 -3649 C - D 206 -4788 B - C 206 -4788 D - E 191 -3649

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.66	24.19	5.83
23.75	0.00	23.29	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

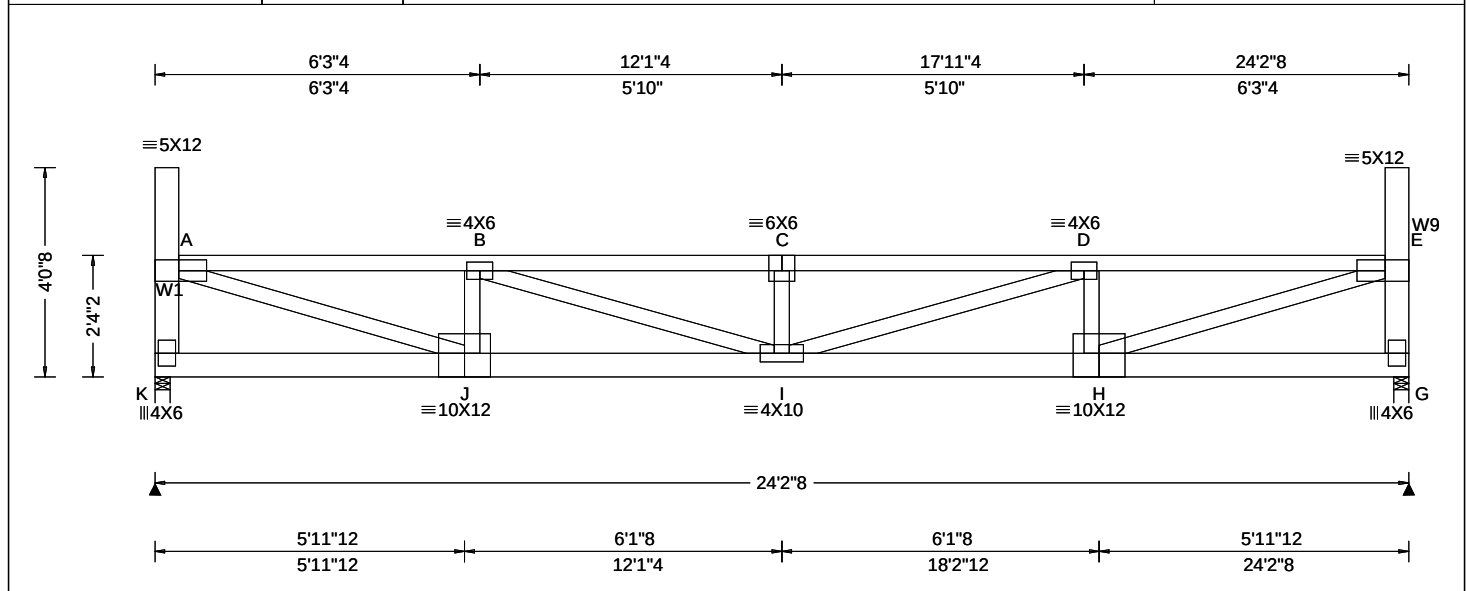


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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35503 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T39A	Cust: R 9316 JRef: 1XIH93160007 T37 DrwNo: 132.22.1643.52563 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.340 C 854 360 VERT(CL): 0.632 C 459 240 HORZ(LL): 0.052 A - - HORZ(TL): 0.097 A - - Creep Factor: 2.0 Max TC CSI: 0.862 Max BC CSI: 0.542 Max Web CSI: 0.916 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /731 /79 /127 G 1541 /- /- /731 /79 /- Non-Gravity Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 193 -3723 C - D 209 -4884 B - C 209 -4884 D - E 194 -3723

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.70	25.57	5.51
23.75	0.00	23.29	1.70	25.57	5.51

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

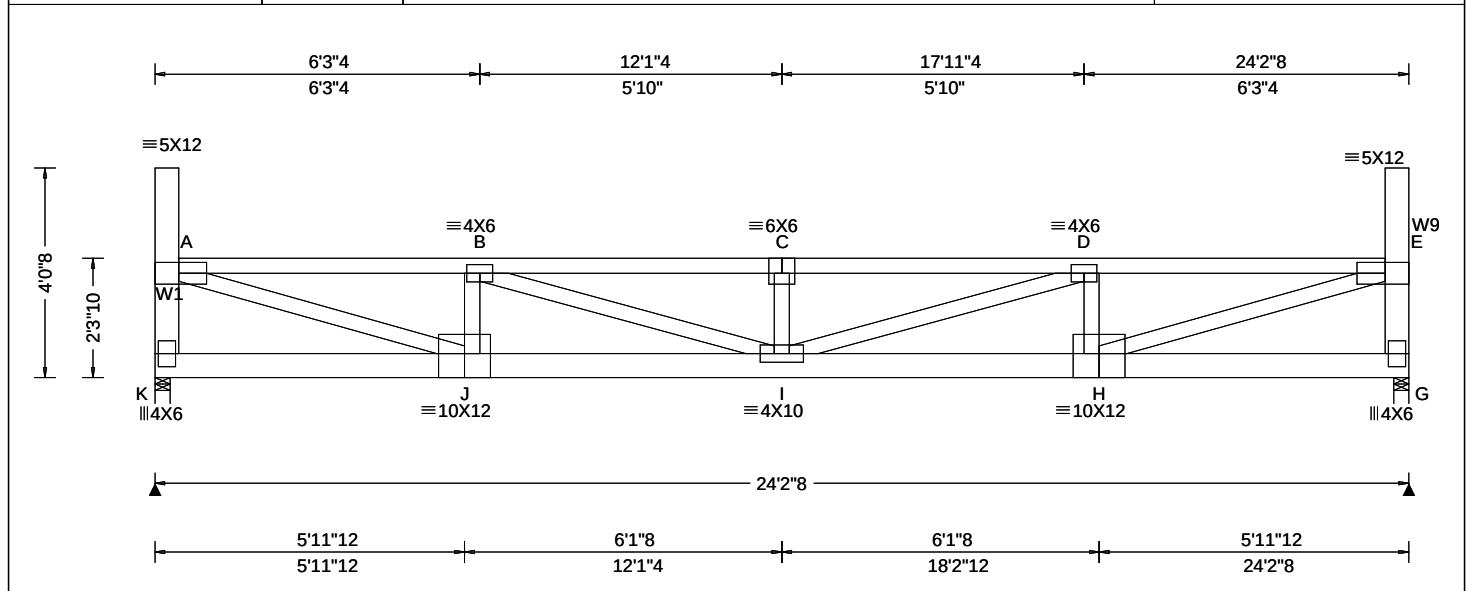


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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35501 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T38A	Cust: R 9316 JRef: 1XH93160007 T25 DrwNo: 132.22.1643.48177 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.354 C 820 360 VERT(CL): 0.658 C 441 240 HORZ(LL): 0.053 A - - HORZ(TL): 0.099 A - - Creep Factor: 2.0 Max TC CSI: 0.886 Max BC CSI: 0.554 Max Web CSI: 0.933 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /731 /79 /128 G 1541 /- /- /731 /79 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 197 -3800 C - D 213 -4985 B - C 213 -4985 D - E 198 -3800

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.74	26.95	5.23
23.75	0.00	23.29	1.74	26.95	5.23

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

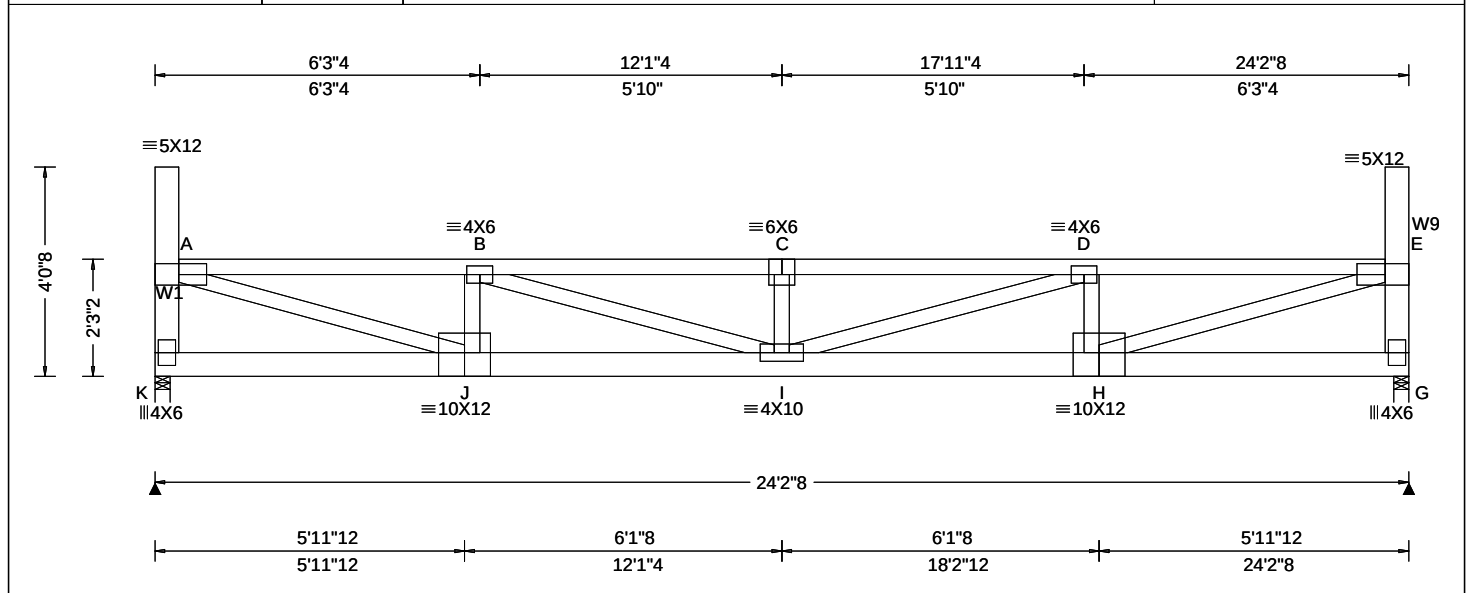


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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35499 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T37A	Cust: R 9316 JRef: 1XIH93160007 T33 DrwNo: 132.22.1643.33050 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.369 C 787 360 VERT(CL): 0.686 C 423 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.101 A - - Creep Factor: 2.0 Max TC CSI: 0.913 Max BC CSI: 0.567 Max Web CSI: 0.951 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /732 /79 /129 G 1541 /- /- /732 /79 /- Non-Gravity Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 200 -3879 C - D 216 -5090 B - C 216 -5090 D - E 201 -3879

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.78	28.34	4.98
23.75	0.00	23.29	1.78	28.34	4.98

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.32". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

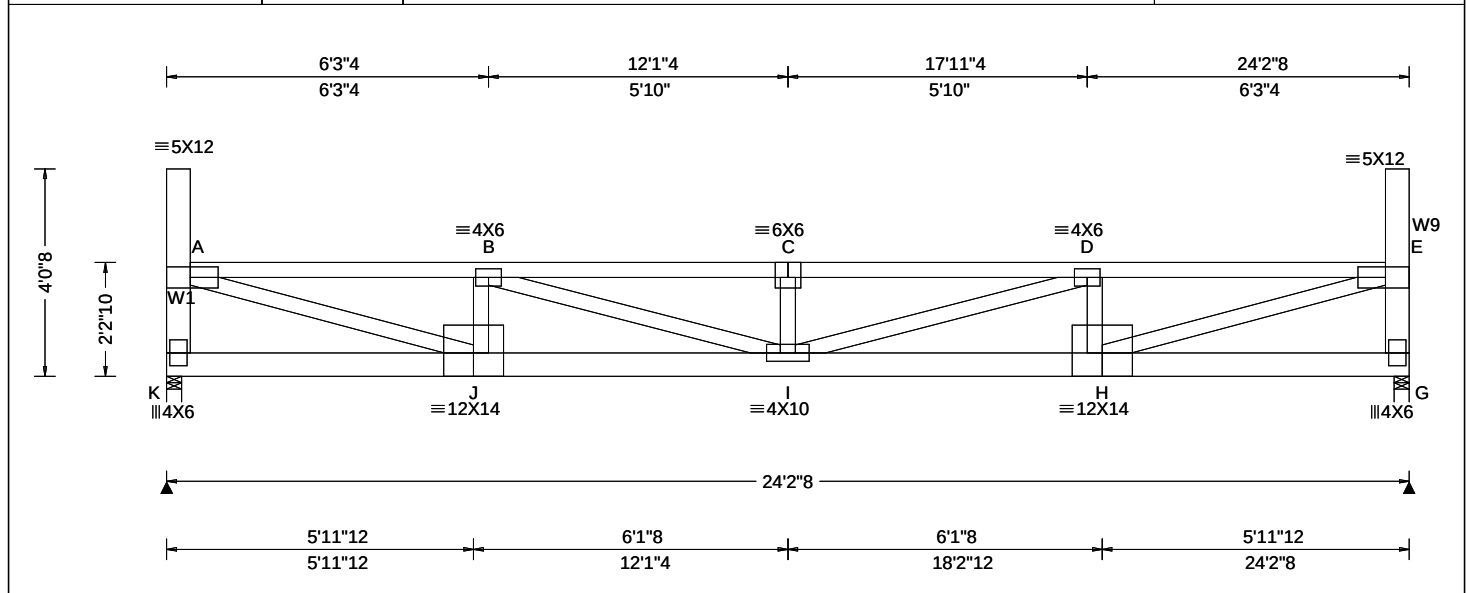


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35497 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T36A	Cust: R 9316 JRef: 1XIH93160007 T38 DrwNo: 132.22.1643.26203 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.385 C 755 360 VERT(CL): 0.715 C 406 240 HORZ(LL): 0.055 A - - HORZ(TL): 0.103 A - - Creep Factor: 2.0 Max TC CSI: 0.930 Max BC CSI: 0.581 Max Web CSI: 0.970 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 -/- /732 /79 /131 G 1541 -/- /732 /79 -/ Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 227 -3963 C - D 282 -5199 B - C 282 -5199 D - E 227 -3963

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.82	29.72	4.74
23.75	0.00	23.29	1.82	29.72	4.74

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

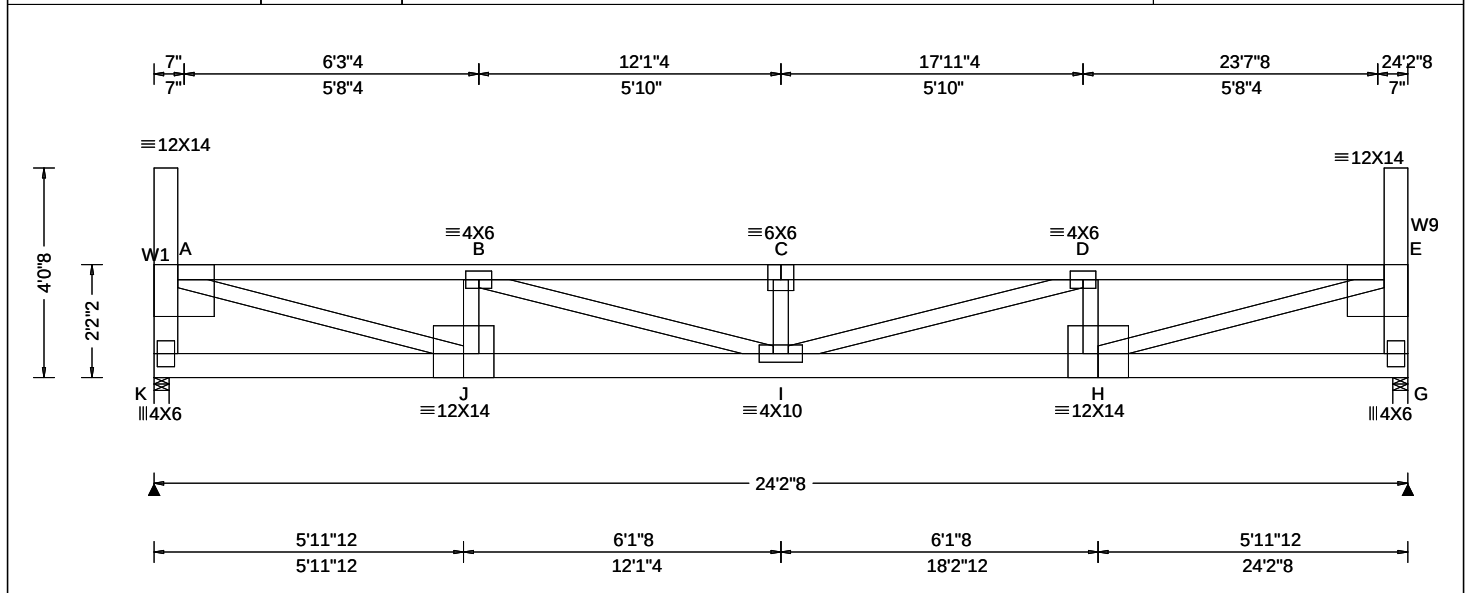


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35495 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T35A	Cust: R 9316 JRef: 1XH93160007 T36 DrwNo: 132.22.1643.20787 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.18 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.401 C 723 360 VERT(CL): 0.746 C 389 240 HORZ(LL): 0.056 A - - HORZ(TL): 0.105 A - - Creep Factor: 2.0 Max TC CSI: 0.949 Max BC CSI: 0.595 Max Web CSI: 0.989 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /732 /78 /132 G 1541 /- /- /732 /78 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 231 - 4049 C - D 287 - 5313 B - C 287 - 5313 D - E 231 - 4049

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.86	31.10	4.53
23.75	0.00	23.29	1.86	31.10	4.53

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.34". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

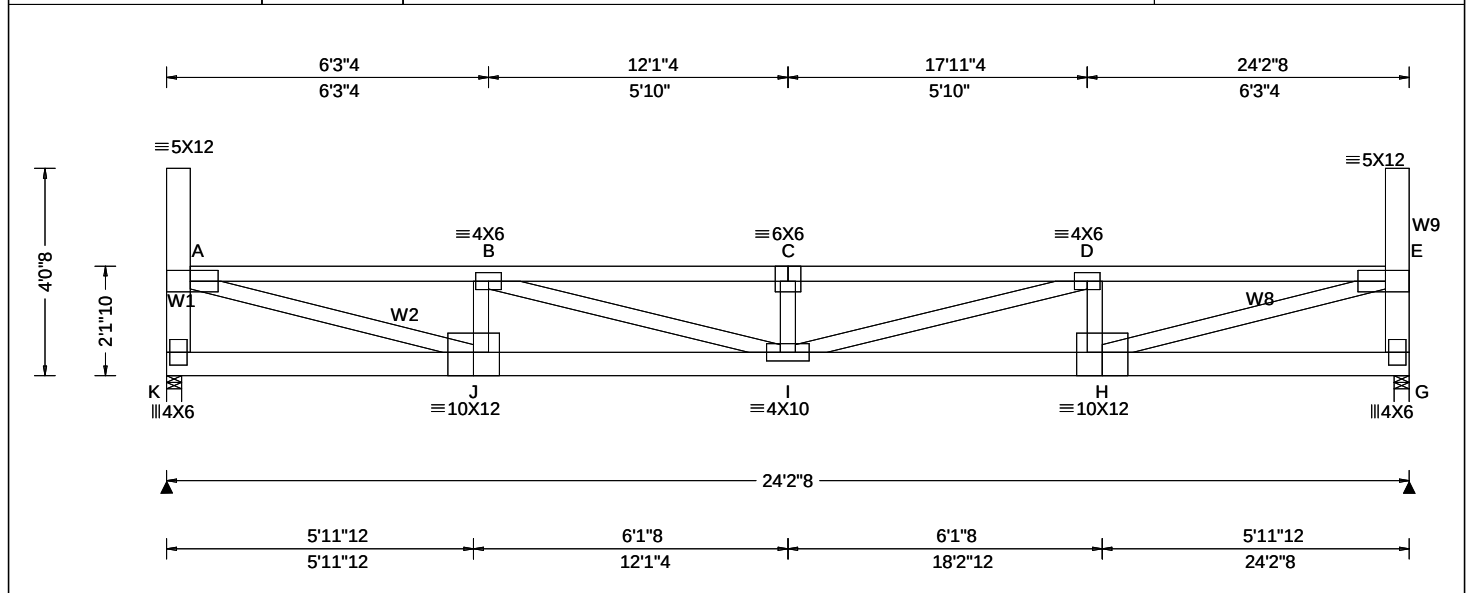


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35493 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T34A	Cust: R 9316 JRef: 1XH93160007 T26 DrwNo: 132.22.1643.10310 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.403 C 721 360 VERT(CL): 0.749 C 388 240 HORZ(LL): 0.058 A - - HORZ(TL): 0.108 A - - Creep Factor: 2.0 Max TC CSI: 0.968 Max BC CSI: 0.608 Max Web CSI: 0.435 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 - / - / 732 / 78 / 133 G 1541 - / - / 732 / 78 / - Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 236 - 4157 C - D 292 - 5424 B - C 292 - 5424 D - E 236 - 4157

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;
W2, W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.91	32.49	4.34
23.75	0.00	23.29	1.91	32.49	4.34

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

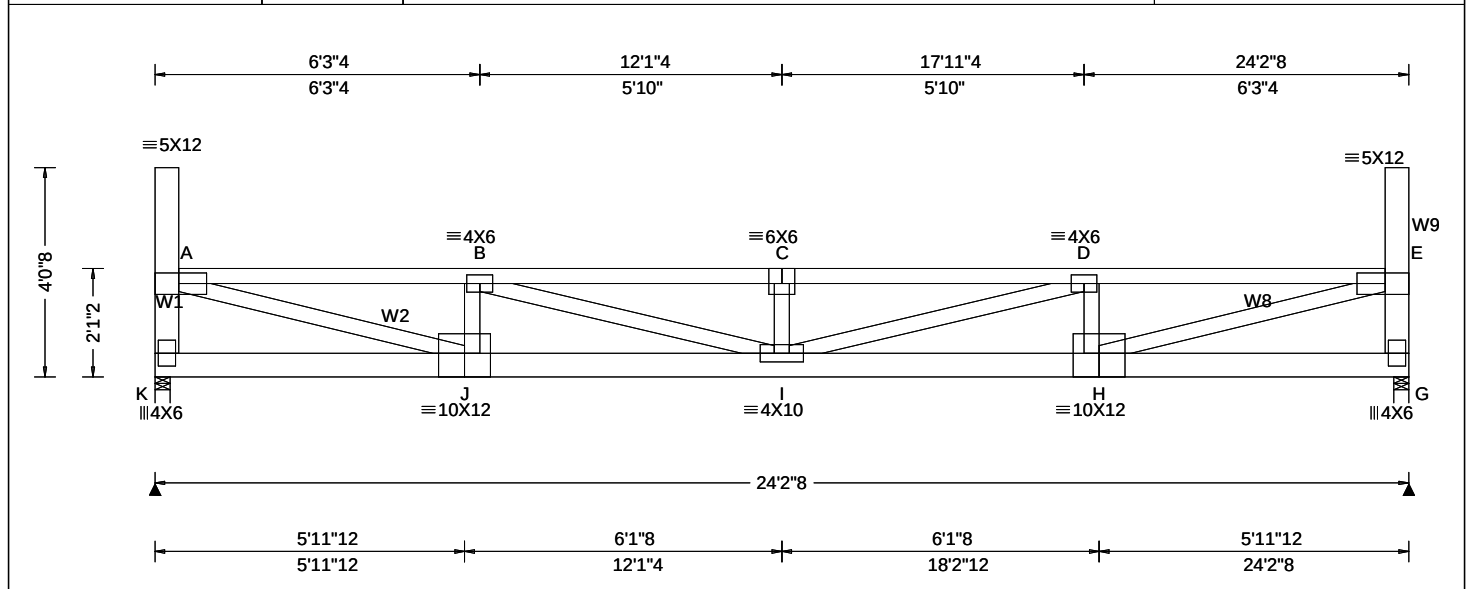


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35491 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T33A	Cust: R 9316 JRef: 1XH93160007 T23 DrwNo: 132.22.1642.54143 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.421 C 689 360 VERT(CL): 0.783 C 370 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.110 A - - Creep Factor: 2.0 Max TC CSI: 0.989 Max BC CSI: 0.624 Max Web CSI: 0.445 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity K 1541 /- /- /732 /78 /134 G 1541 /- /- /732 /78 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 241 - 4253 C - D 298 - 5547 B - C 298 - 5547 D - E 241 - 4253

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;
W2, W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.29	1.95	33.87	4.16
23.75	0.00	23.29	1.95	33.87	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.42" DL: 0.36". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



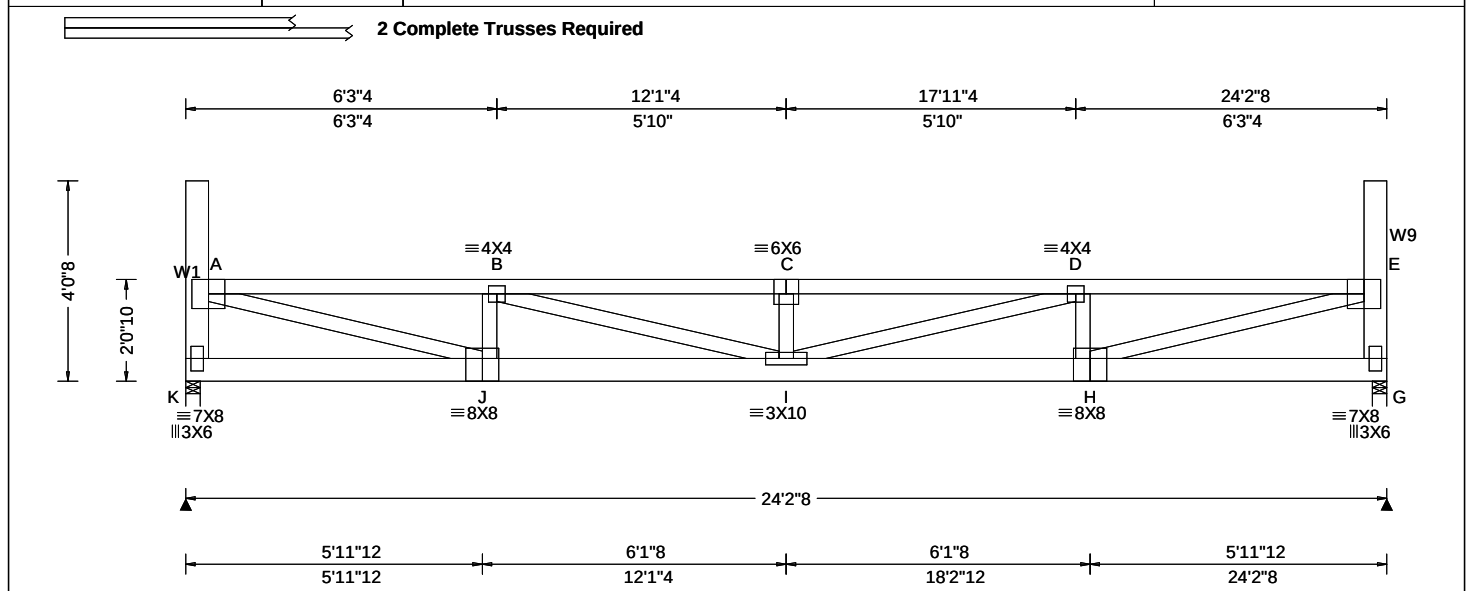
05/12/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35948 FROM:	FLAT Ply: 2 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T32A	Cust: R 9316 JRef: 1XH93160007 T22 DrwNo: 132.22.1642.45927 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.267 C 999 360 VERT(CL): 0.496 C 585 240 HORZ(LL): 0.035 A - - HORZ(TL): 0.065 A - - Creep Factor: 2.0 Max TC CSI: 0.443 Max BC CSI: 0.432 Max Web CSI: 0.614 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1770 - / - / - / 343 - / - G 1721 - / - / - / 355 - / - Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 519 - 2525 C - D 696 - 3304 B - C 696 - 3304 D - E 532 - 2517

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1, W9 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 23.75
BC: From 60 plf at 0.00 to 60 plf at 2.15
BC: From 30 plf at 2.15 to 30 plf at 24.21
BC: 170 lb Conc. Load at 2.15, 4.15, 6.15, 8.15, 10.15, 18.15, 20.15
BC: 173 lb Conc. Load at 12.15, 14.15, 16.15, 22.15

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.29 1.99 34.21 4.12
23.75 0.00 23.29 1.99 34.21 4.12
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
J - I 2569 - 526 I - H 2561 - 538

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
K - A 147 - 740 I - D 773 - 164
A - J 2504 - 516 H - E 2498 - 528
B - I 765 - 177 E - G 150 - 738

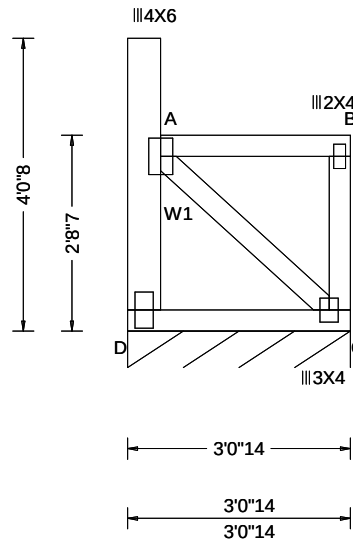


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35526 FROM:	GABL Ply: 1 Qty: 3	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T52A	Cust: R 9316 JRef: 1XIH93160007 T20 DrwNo: 132.22.1645.14180 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.133 Max BC CSI: 0.119 Max Web CSI: 0.069 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 120 /- /- /56 /4 /30 Wind reactions based on MWFRS C Brg Wid = 36.9 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.34	13.63 2.61

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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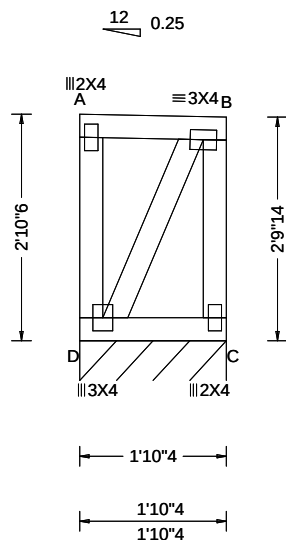
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 35925 / FROM:	MONO Qty: 2	Job Number: JB-220690 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T16B	Cust: R 9316 JRef: 1XfH93160007 T12 / DrwNo: 132.22.1629.42197 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.99 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.052 Max BC CSI: 0.045 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /27 Wind reactions based on MWFRS C Brg Wid = 22.3 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/12/2022

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Gable Stud Reinforcement Detail

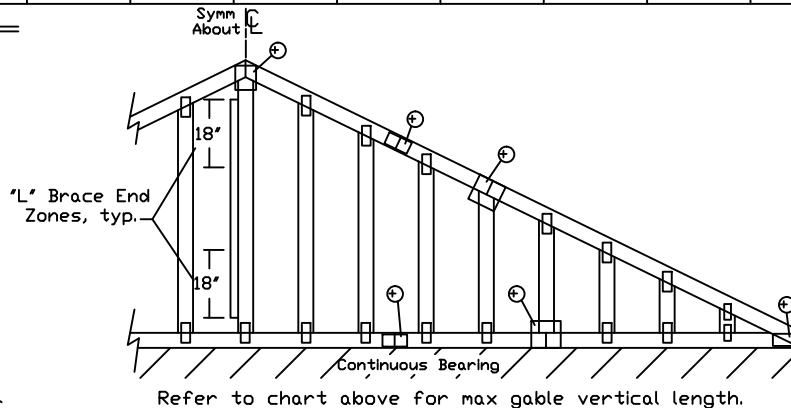
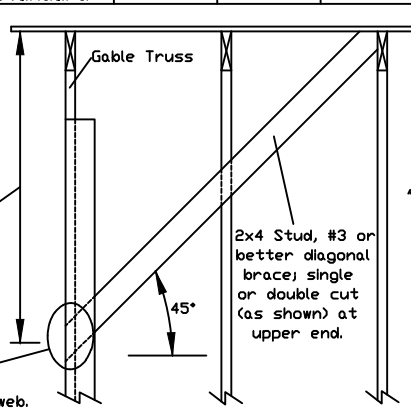
ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical Spacing		Brace	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **		
	Species	Grade	Group A		Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B		
24" O.C.	SPF	HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"	
			#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
			Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
		DFL	Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"	
			#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"	
			#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"	
	SP	DFL	#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
			Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
			Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"	
		SPF	HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
				#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
				Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
SP	DFL		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"	
			#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
			#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	
	12" O.C.	SPF	DFL	#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
				Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
				Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
SP			DFL	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	DFL	Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
SP			DFL	#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 355# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).
 ***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.

* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
 ** For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

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REF ASCE7-16-GAB11530

DATE 01/26/2018

DRWG A11530ENC160118

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"



CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

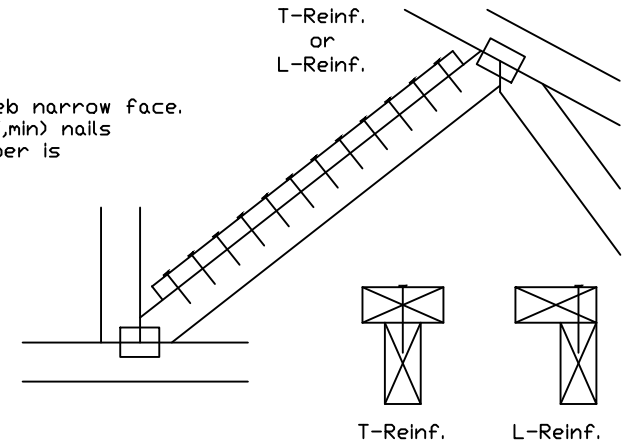
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

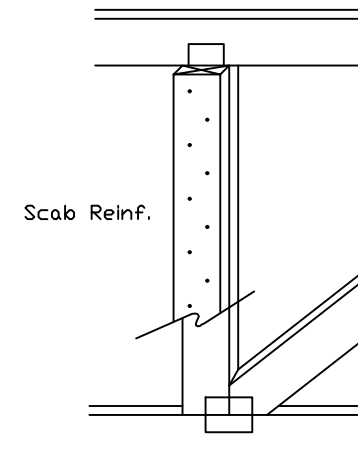
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements

Top: Continuous roof sheathing

Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail
for lumber, plates, and other information not shown
on this detail.

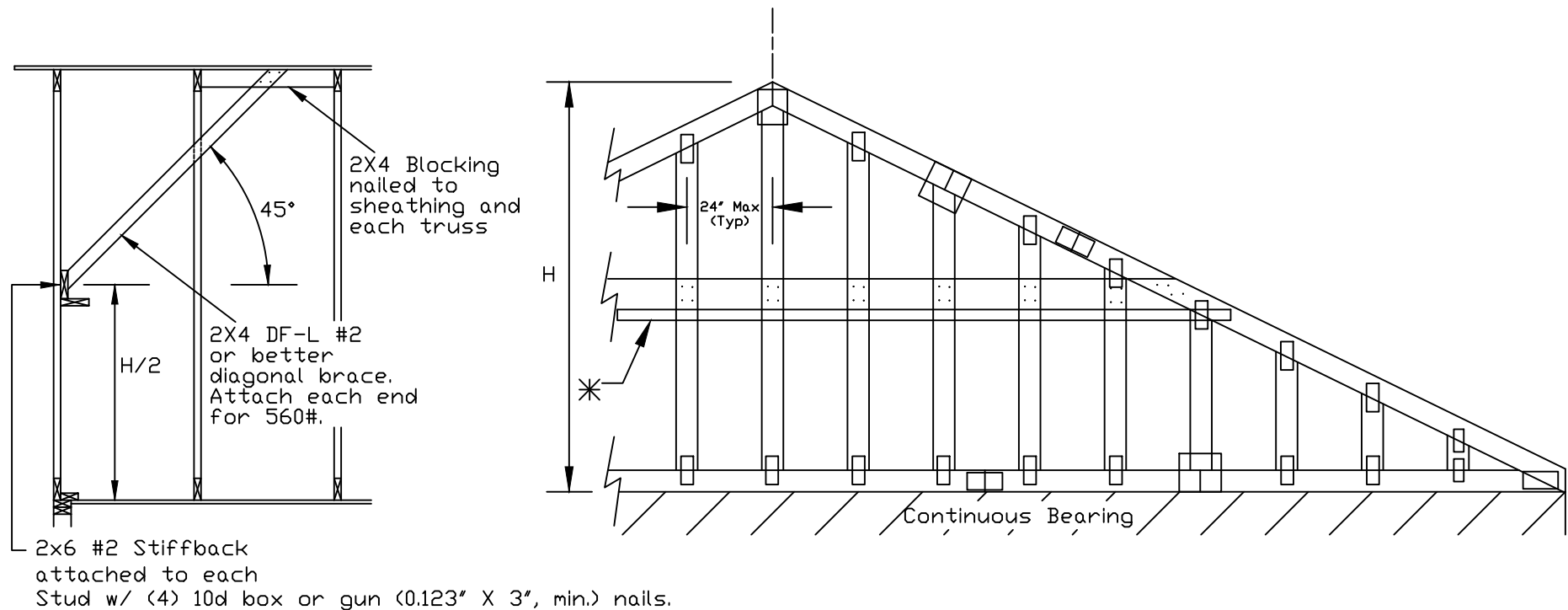
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback
to roof diaphragm every 6'0" (see detail below or
refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace
to roof diaphragm every 4'0" (see detail below or
refer to DRWG A12030ENC160118).

* Optional 2x L-reinforcement attached
to stiffback with 10d box or gun
(0.128" x 3", min.) nails @ 6" o.c.



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MAX. TOT. LD. 60 PSF

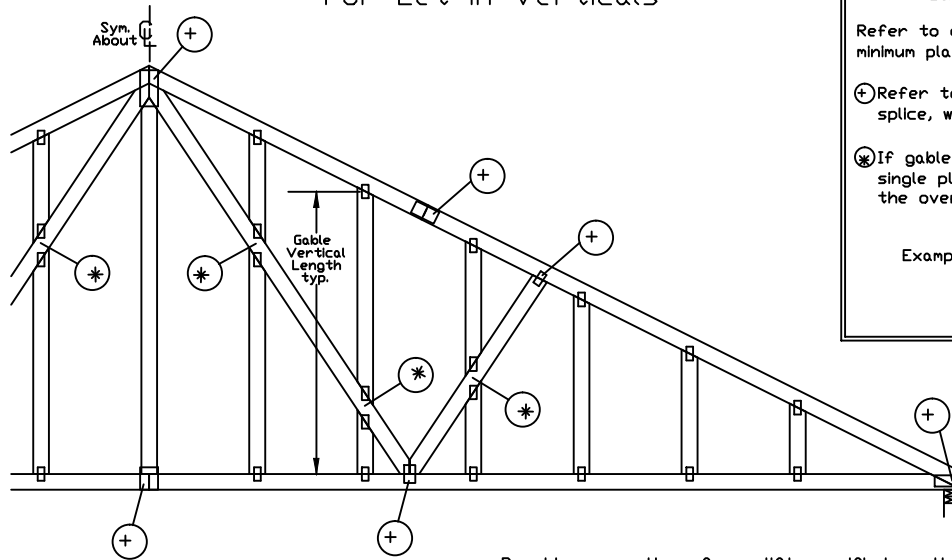
MAX. SPACING

REF GE WHALER

DATE 01/02/2018

DRWG GABRST160118

Gable Detail For Let-in Verticals

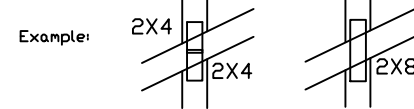


Gable Truss Plate Sizes

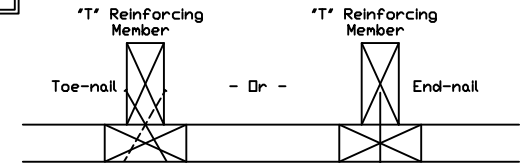
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

(+) Refer to Engineered truss design for peak, splice, web, and heel plates.

(X) If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.



'T' Reinforcement Attachment Detail



To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate Alpine gable detail).

Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member.

Web Length Increase w/ 'T' Brace

'T' Reinf. Mbr. Size	'T' Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

Gable Vertical = 24' o.c. SP #3

'T' Reinforcing Member Size = 2x4

'T' Brace Increase (From Above) = 30% = 1.30

(1) 2x4 'L' Brace Length = 8' 7"

Maximum 'T' Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

10d Common (0.148"x3",min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x3",min) Toenails at 4' o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

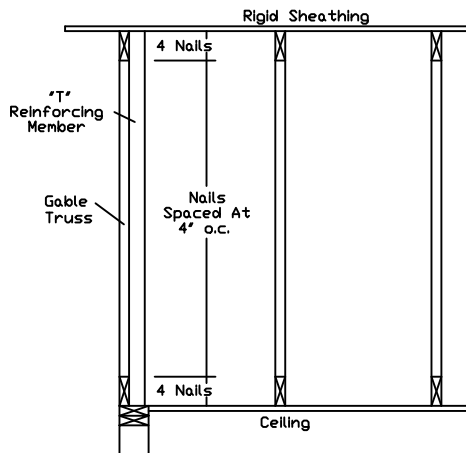
ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,
A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,
A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



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MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118



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

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Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 9 Truss	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

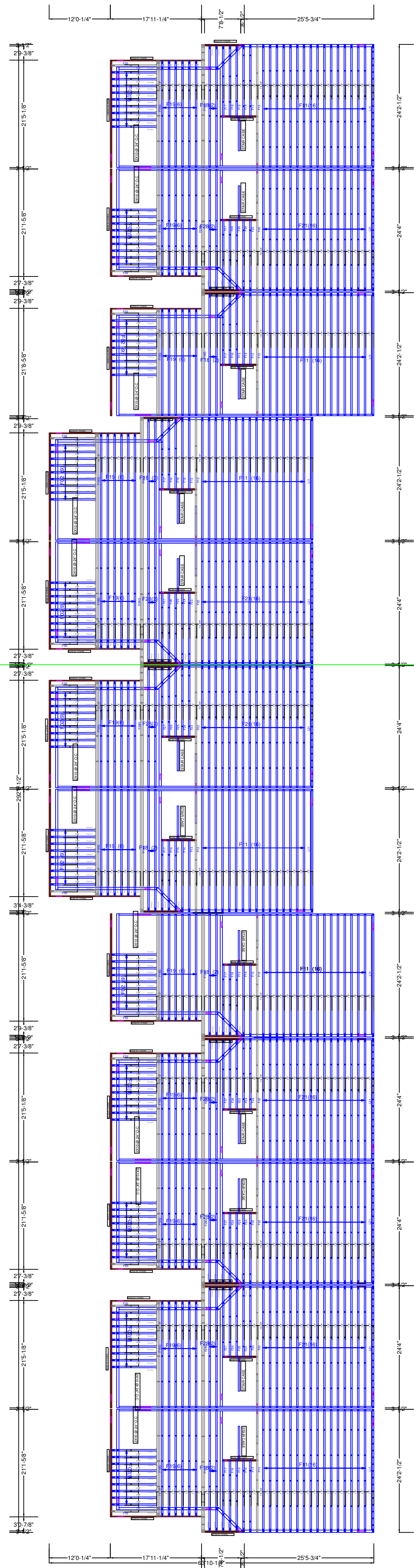
BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Total Truss Quantity = 540.	
Total Plan Area with OHs = 13027 sq.ft	
HANGER CHART	
Symbol	Name Qty Manufacturer
	= THA422 261 Simpson
	= THA422-2 12 Simpson



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



SHOP DRAWING REVIEW	
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS	
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS	
☐	APPROVED
☐	FURNISH AS CORRECTED
☐	REJECTED, REVISE & RESUBMIT
☐	RETURNED NOT REVIEWED
☒	REVIEWED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY	
Bob D. Campbell & Co., Inc.	
STRUCTURAL ENGINEERS	
DATE 05/30/2022	BY CB

DO NOT Erect Backwards/UpSide Down or Cut, Alter, Installed Trusses

ss:
2100 NW Lowenstein Dr
Lee's Summit
MO

Designer: Juan R Quiroz

Date: 4/29/2022

Reference #: JB-220689



NOTE: Yellow ID Tag Location Indicates
Left/Front/Bottom of Truss



04/29/2022

**SHOP DRAWING REVIEW**

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.

STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220689
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00
	JRef #: 1Xf493160007
Wind Standard: ASCE716 Wind Speed (mph): 0	Design Loading (psf): 75.00
Building Type:	

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	119.22.1630.49143	F02	2	119.22.1630.58973	F03
3	119.22.1631.05203	F11	4	119.22.1631.15813	F12
5	119.22.1631.21820	F13	6	119.22.1631.24717	F14
7	119.22.1631.44457	F15	8	119.22.1631.56647	F16
9	119.22.1632.15587	F17	10	119.22.1632.30903	F18
11	119.22.1623.54938	F18G	12	119.22.1632.44060	F19
13	119.22.1633.01010	F19G	14	119.22.1633.26507	F21
15	119.22.1633.45973	F22	16	119.22.1633.52003	F23
17	119.22.1633.59170	F24	18	119.22.1634.13700	F25
19	119.22.1623.54920	F26	20	119.22.1623.54852	F27
21	119.22.1623.54939	F28	22	119.22.1634.45113	F28G
23	119.22.1634.48753	L11	24	119.22.1634.56790	L21
25	CNSY42PL0118		26	DEFLCAMB1014	
27	LSCSYX2A1014		28	STRBRIBR1014	

REVIEWED ☒

DATE RECIEVED:

REVIEWED AS NOTED ☐

DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐

REVIEWED BY: michaela.silva

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



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)**Key to Terms:**

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

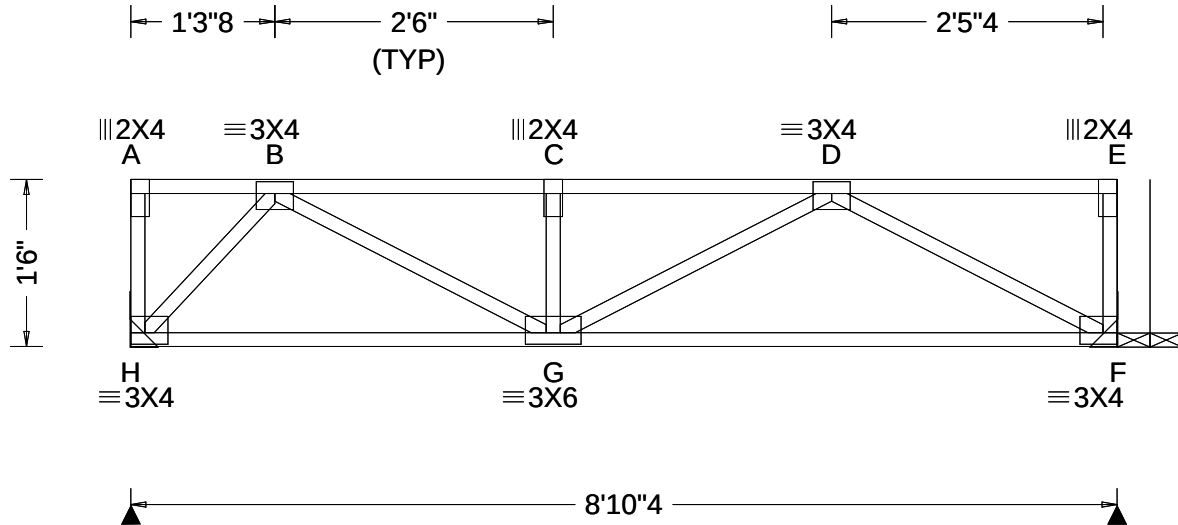
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

SEQN: 34955 FROM:	SY42	Ply: 1 Qty: 12	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F03	Cust: R 9316 JRef: 1X1493160007 T7 DrwNo: 119.22.1630.58973 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.024 C 999 480 VERT(CL): 0.046 C 999 360 HORZ(LL): 0.004 B - - HORZ(TL): 0.008 B - - Creep Factor: 2.0 Max TC CSI: 0.298 Max BC CSI: 0.324 Max Web CSI: 0.141 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL H 443 /- /- /- /- /- F 443 /- /- /- /- /- H Brg Wid = - Min Req = - F Brg Wid = - Min Req = - Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -747 C - D 0 -747 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. G - F 606 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. H - B 0 -546 D - F 0 -687 B - G 426 0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.



04/29/2022

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!******IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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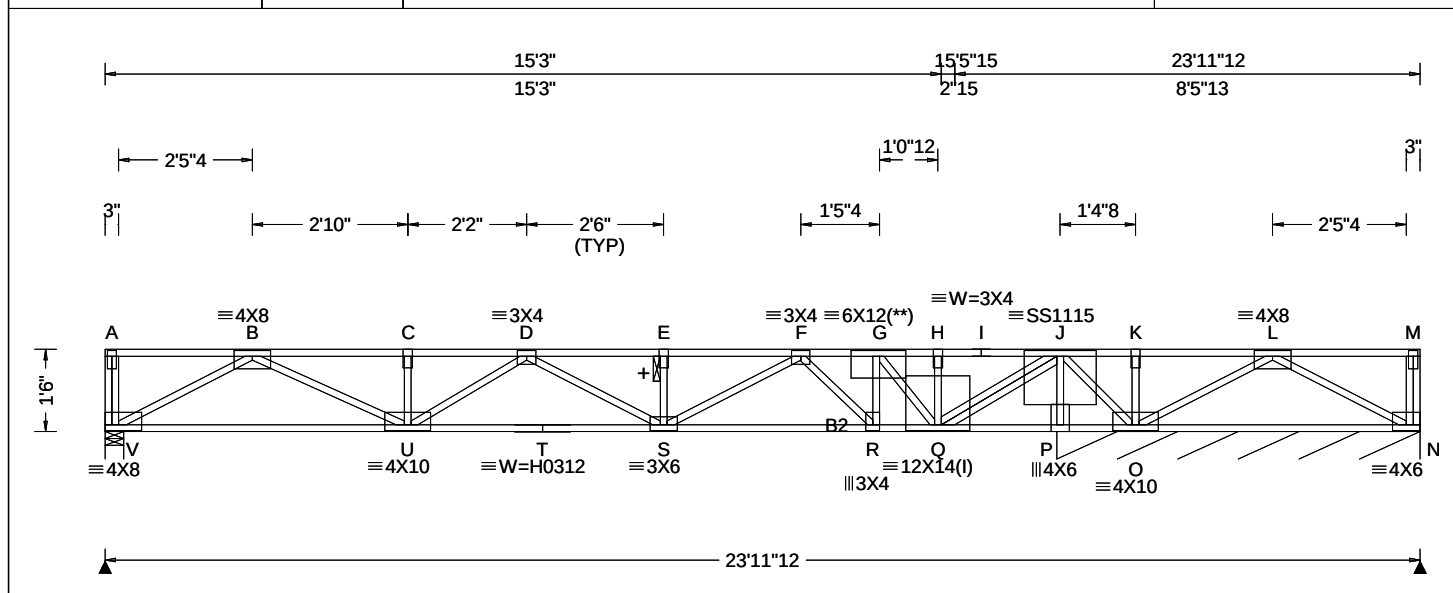
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34980 FROM:	SY42 Qty: 6	Ply: 1	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F12	Cust: R 9316 JRef: 1X1493160007 T1 DrwNo: 119.22.1631.15813 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE, HS, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.201 E 999 480 VERT(CL): 0.377 E 545 360 HORZ(LL): 0.029 B - - HORZ(TL): 0.054 B - - Creep Factor: 2.0 Max TC CSI: 0.946 Max BC CSI: 0.960 Max Web CSI: 0.568 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL V 961 /- /- /- /- /- N* 443 /- /- /- /- /- N /-304 V Brg Wid = 4.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.



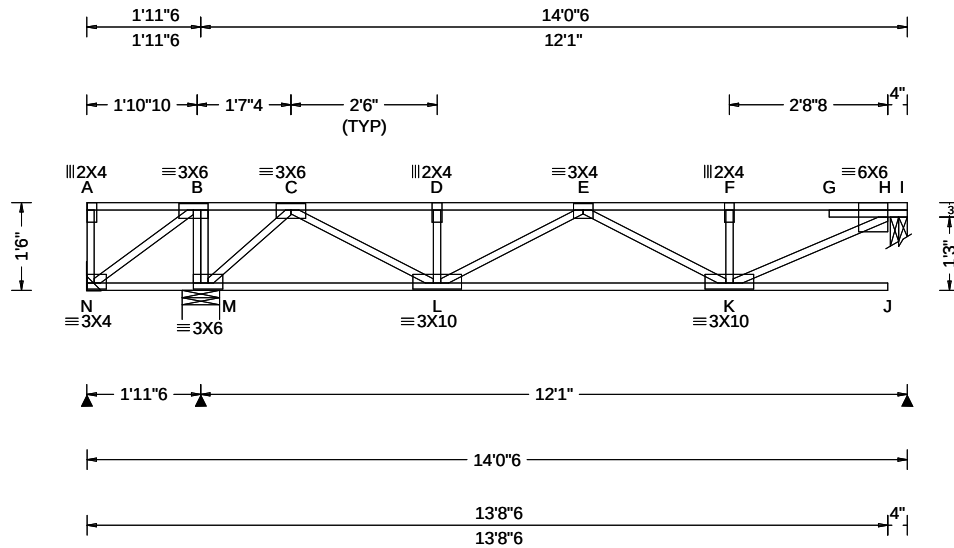
04/29/2022

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34986 FROM:	SY42	Ply: 1 Qty: 6	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F16	Cust: R 9316 JRef: 1X1493160007 T33 DrwNo: 119.22.1631.56647 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.159 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.283 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - / -323 / - / - / - / - M 1131 / - / - / - / - / - I 547 / - / - / - / - / - N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	0 -469	L - K	1034 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	580 0	C - L	816 0
B - M	0 -512	K - H	1004 0
M - C	0 -842		



04/29/2022

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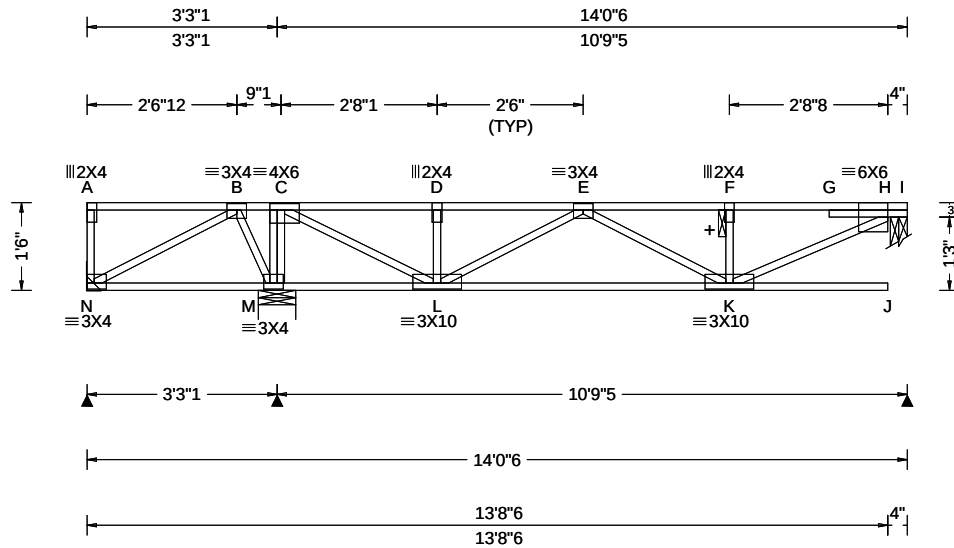
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34989 FROM:	SY42 Qty: 6	Ply: 1	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F17	Cust: R 9316 JRef: 1X1493160007 T20 DrwNo: 119.22.1632.15587 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 870 480 VERT(CL): 0.233 J 550 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.749 Max BC CSI: 0.437 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 57 /-122 /- /- /- /- M 959 /- /- /- /- /- I 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

L - K 818 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

M - C 0 -627 K - H 874 0
C - L 963 0



04/29/2022

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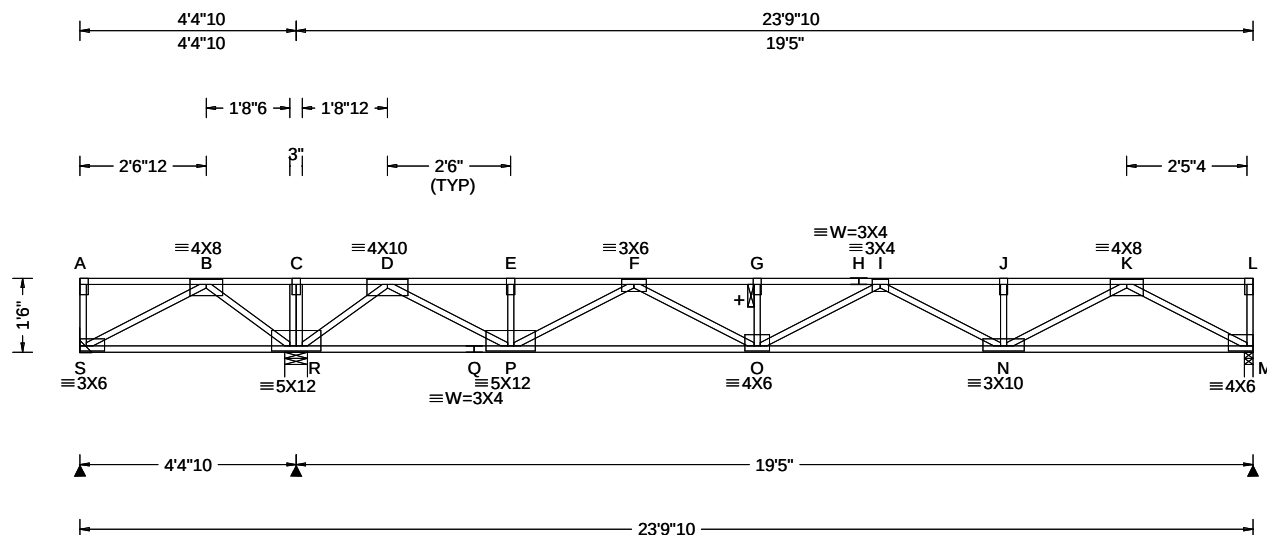
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34963 FROM:	SY42 Qty: 12	Ply: 1 Qty: 12	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F18	Cust: R 9316 JRef: 1X1493160007 T16 DrwNo: 119.22.1632.30903 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 G 999 480 VERT(CL): 0.371 G 628 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.796 Max Web CSI: 0.466 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-458 /- /- /- /- R 1886 /- /- /- /- /- M 844 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Negative reaction(s) of -458# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp. Chords Tens. Comp.

S - R	0 -955	P - O	1987	0
R - Q	0 -427	O - N	2580	0
Q - P	0 -427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

S - B	1084	0	F - O	631	0
B - R	0	-1117	I - N	0	-411
R - D	0	-1648	N - K	991	0
D - P	1653	0	K - M	0	-1535
P - F	0	-1085			



04/29/2022

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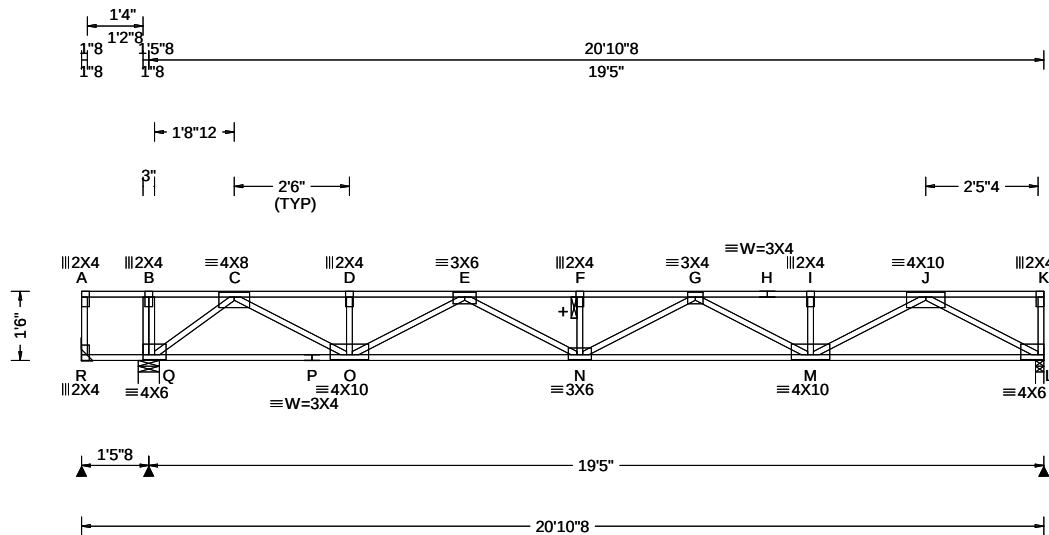
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34965 FROM:	SY42 Qty: 72	Ply: 1 Qty: 72	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F19	Cust: R 9316 JRef: 1X1493160007 T34 DrwNo: 119.22.1632.44060 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.246 F 943 480 VERT(CL): 0.462 F 502 360 HORZ(LL): 0.038 L - - HORZ(TL): 0.072 L - - Creep Factor: 2.0 Max TC CSI: 0.485 Max BC CSI: 0.960 Max Web CSI: 0.397 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 27 /-42 /- /- /- /- Q 1134 /- /- /- /- /- L 962 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Q - P	1089 0	N - M	3224 0
P - O	1089 0	M - L	1570 0
O - N	3055 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q - C	0 - 1383	G - M	0 - 654
C - O	1407 0	M - J	1233 0
O - E	0 - 839	J - L	0 - 1782
E - N	387 0		



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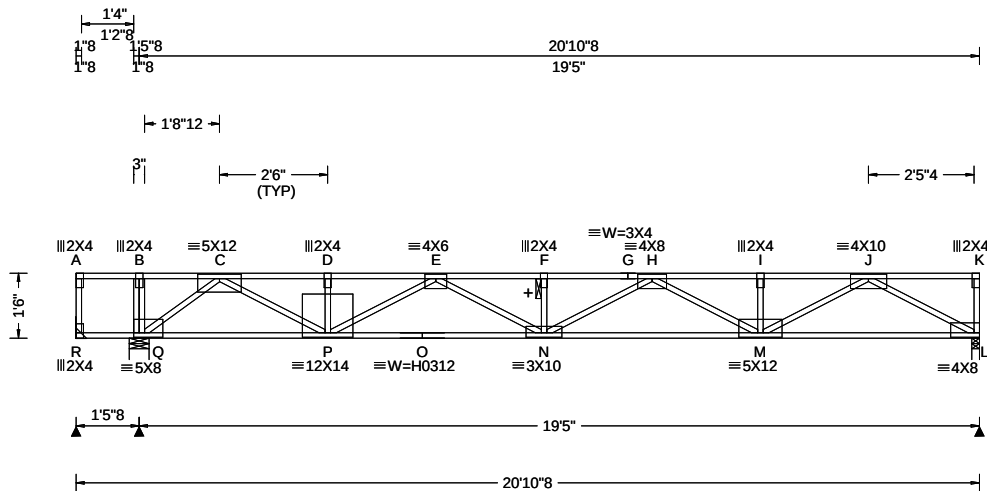
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34966 FROM:	SY42 Qty: 12	Ply: 2 Qty: 12	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F19G	Cust: R 9316 JRef: 1X1493160007 T8 DrwNo: 119.22.1633.01010 / NDW 04/29/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.290 F 799 480 VERT(CL): 0.545 F 426 360 HORZ(LL): 0.041 C - - HORZ(TL): 0.076 C - - Creep Factor: 2.0 Max TC CSI: 0.583 Max BC CSI: 0.585 Max Web CSI: 0.629 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL R 24 /-58 /- /- /- /- Q 3942 /- /- /- /- /- L 1997 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 20.88
BC: From 13 plf at 0.00 to 13 plf at 20.88
TC: 443 lb Conc. Load at 0.94
TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27
7.60, 8.94, 10.27, 11.60, 12.94

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

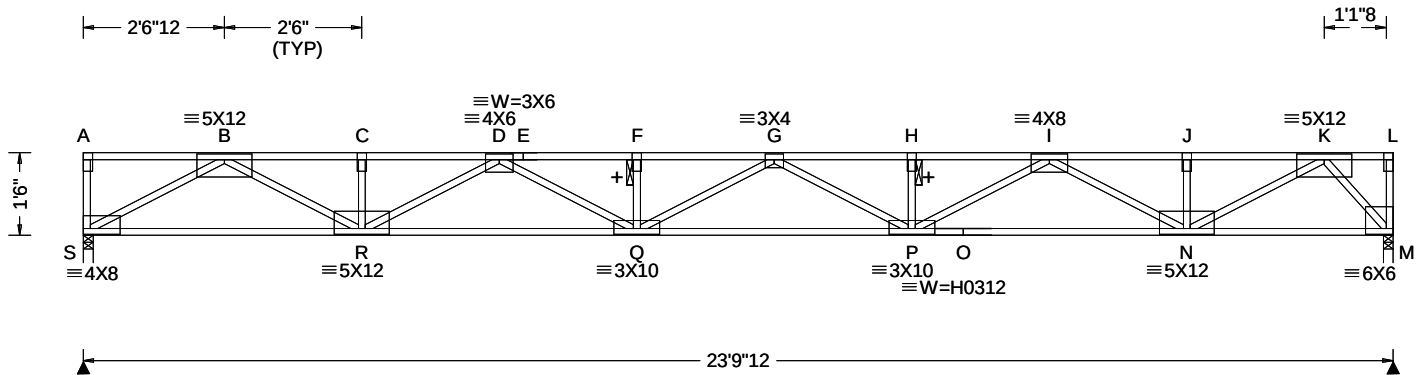


04/29/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34967 FROM:	SY42 Qty: 96	Ply: 1 Qty: 96	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F21	Cust: R 9316 JRef: 1X1493160007 T19 DrwNo: 119.22.1633.26507 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.419 G 682 480 VERT(CL): 0.785 G 364 360 HORZ(LL): 0.056 M - - HORZ(TL): 0.104 M - - Creep Factor: 2.0 Max TC CSI: 0.442 Max BC CSI: 0.664 Max Web CSI: 0.556 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1191 /- /- /- /- /- M 1191 /- /- /- /- /- S Brg Wid = 2.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3491 G - H 0 - 4826 C - D 0 - 3491 H - I 0 - 4826 D - E 0 - 5062 I - J 0 - 2773 E - F 0 - 5062 J - K 0 - 2773 F - G 0 - 5062

Lumber

Top chord: 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	1995 0	P - O	4000 0
R - Q	4479 0	O - N	4000 0
Q - P	5145 0	N - M	1047 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
S - B	0 - 2264	P - I	942 0
B - R	1707 0	I - N	0 - 1401
R - D	0 - 1127	N - K	1969 0
D - Q	665 0	K - M	0 - 1557



04/29/2022

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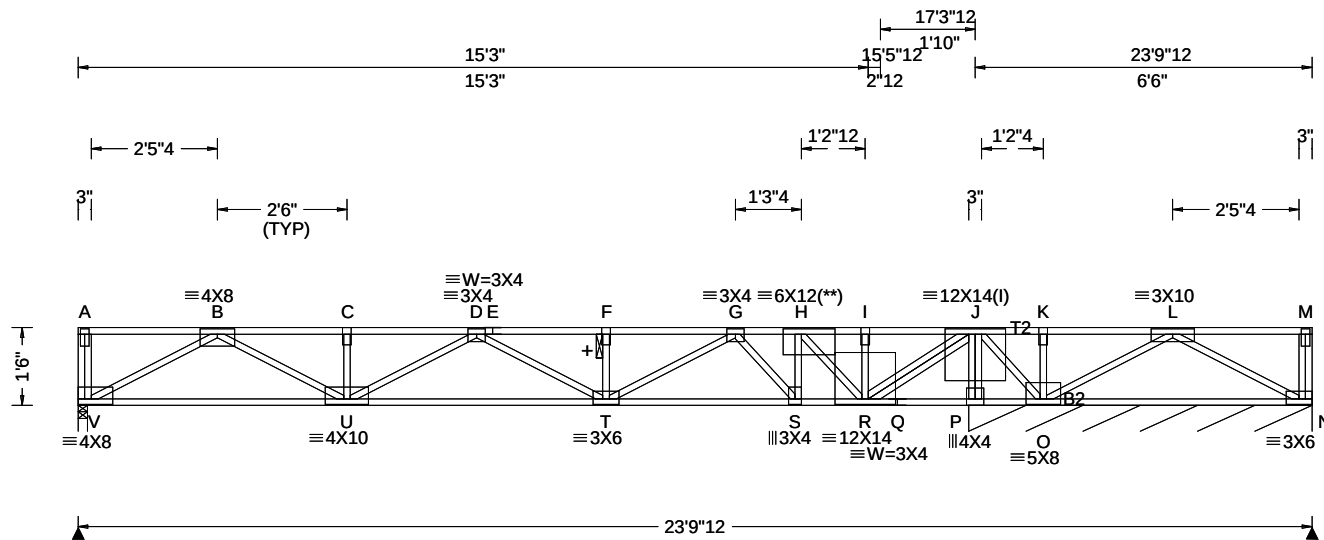
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34968 FROM:	SY42 Qty: 6	Ply: 1	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F22	Cust: R 9316 JRef: 1X1493160007 T2 DrwNo: 119.22.1633.45973 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.179 F 999 480 VERT(CL): 0.335 F 613 360 HORZ(LL): 0.026 B - - HORZ(TL): 0.049 B - - Creep Factor: 2.0 Max TC CSI: 0.504 Max BC CSI: 0.472 Max Web CSI: 0.548 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL V 961 /- /- /- /- /- N* 441 /- /- /- /- /- N /-246 V Brg Wid = 2.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2565 G - H 0 -2521 C - D 0 -2565 H - I 0 -698 D - E 0 -3256 I - J 0 -698 E - F 0 -3256 J - K 1825 0 F - G 0 -3256 K - L 1825 0

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.81
BC: From 13 plf at 0.00 to 13 plf at 23.81
TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

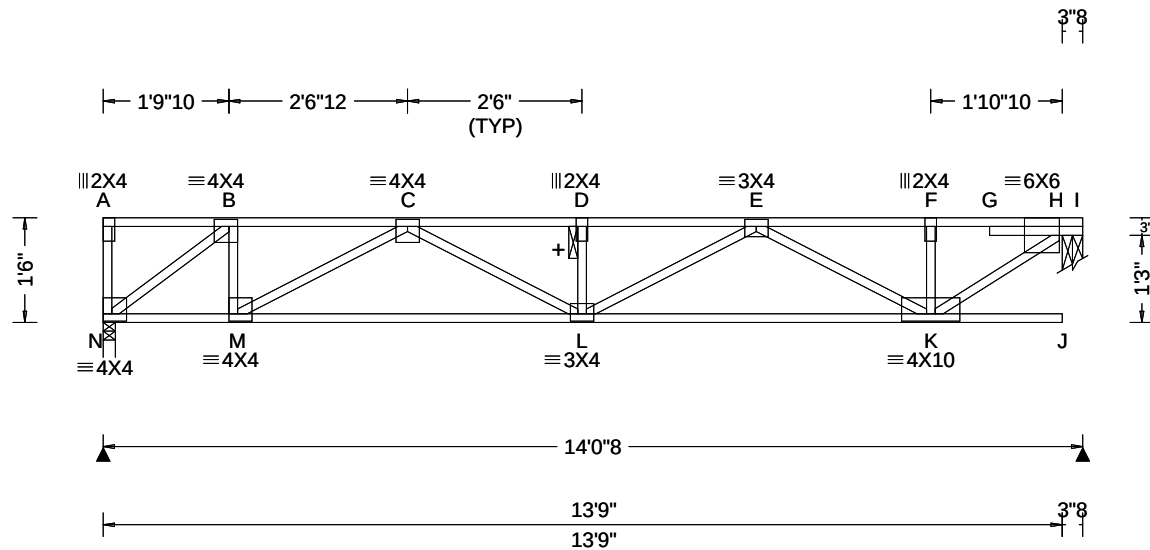


04/29/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34969 FROM:	SY42 Qty: 6	Ply: 1 Qty: 6	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F23	Cust: R 9316 JRef: 1X1493160007 T25 DrwNo: 119.22.1633.52003 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.092 D 999 480 VERT(CL): 0.172 D 970 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.613 Max BC CSI: 0.522 Max Web CSI: 0.325 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 694 /- /- /- /- /- H 707 /- /- /- /- /- N Brg Wid = 2.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -869 E - F 0 -931 C - D 0 -1793 F - H 0 -930 D - E 0 -1793

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	831	L - K	1548
M - L	1525		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1045	E - K	0 -704
B - M	425	K - H	1152
M - C	0 -752		0



04/29/2022

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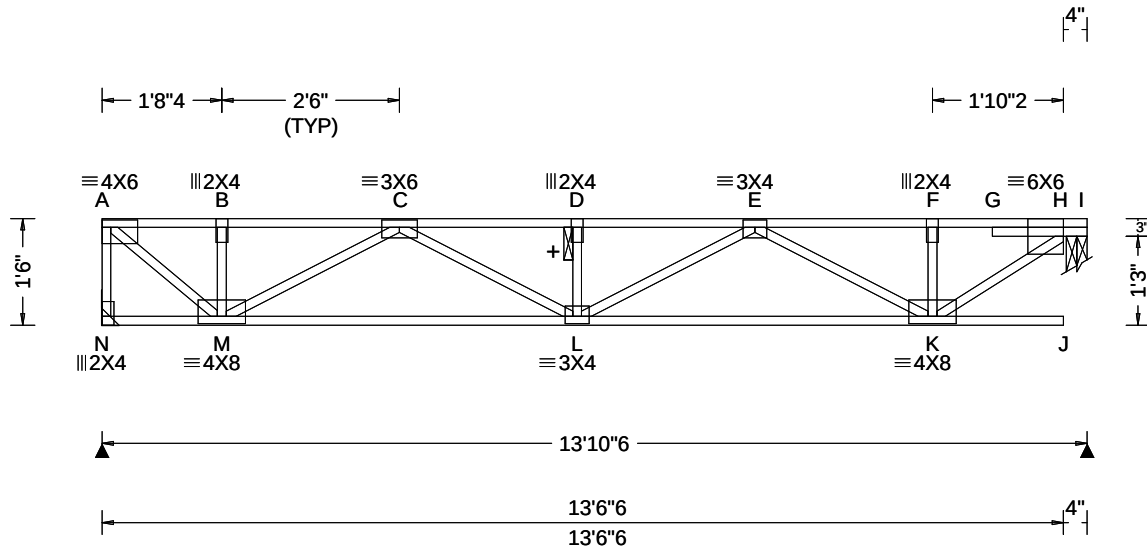
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34970 FROM:	SY42 Qty: 6	Ply: 1 Qty: 6	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F24	Cust: R 9316 JRef: 1X1493160007 T3 DrwNo: 119.22.1633.59170 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.090 D 999 480 VERT(CL): 0.167 D 982 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.604 Max BC CSI: 0.513 Max Web CSI: 0.320 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 685 /- /- /- /- /- H 697 /- /- /- /- /- N Brg Wid = - Min Req = - H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -776 D - E 0 -1749 B - C 0 -776 E - F 0 -917 C - D 0 -1749 F - H 0 -916

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1463 0	L - K	1518 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -684	E - K	0 -687
A - M	1001 0	K - H	1134 0
M - C	0 -784		



04/29/2022

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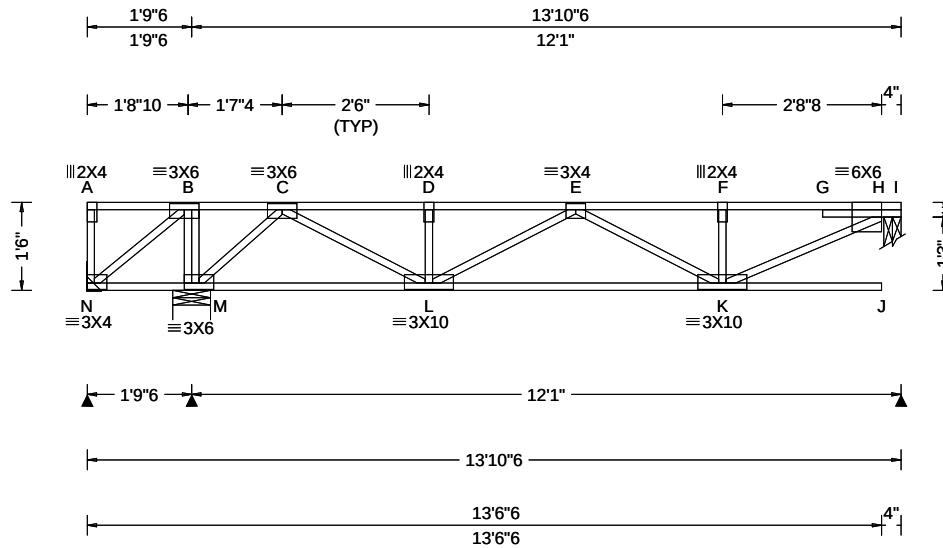
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34995 / FROM:	SY42	Ply: 1 Qty: 6	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F26	Cust: R 9316 JRef: 1X1493160007 T5 / DrwNo: 119.22.1623.54920 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.158 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.284 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - / -358 / - / - / - / - M 1154 / - / - / - / - / - H 547 / - / - / - / - / - N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	0 -465	L - K	1035 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	596 0	C - L	815 0
B - M	0 -533	K - H	1005 0
M - C	0 -843		



04/29/2022

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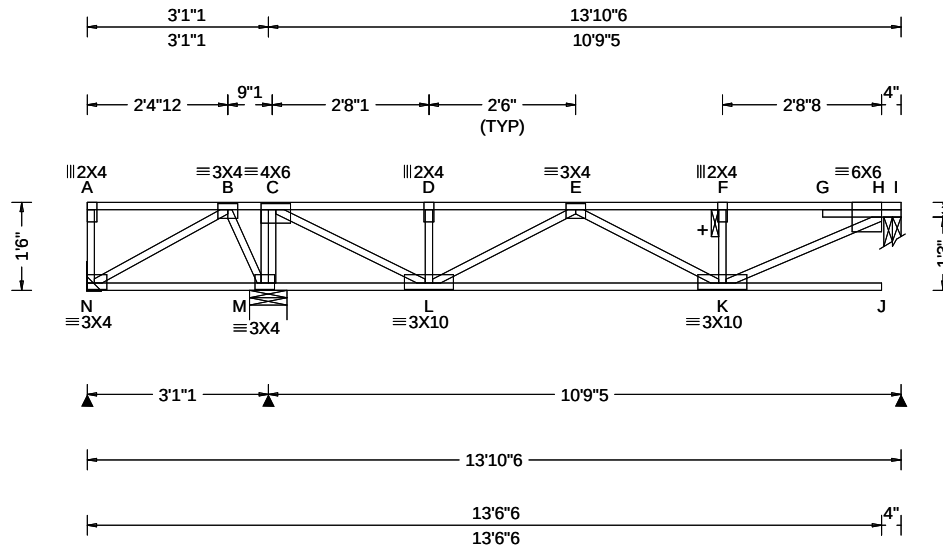
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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 34998 / FROM:	SY42	Ply: 1 Qty: 6	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F27	Cust: R 9316 JRef: 1X1493160007 T9 / DrwNo: 119.22.1623.54852 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 869 480 VERT(CL): 0.233 J 549 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.748 Max BC CSI: 0.436 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 44 /-139 /- /- /- /- M 963 /- /- /- /- /- H 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 427 0 E - F 0 -782 C - D 0 -495 F - H 0 -784 D - E 0 -495

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

L - K 815 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

M - C 0 -633 K - H 872 0
C - L 964 0



04/29/2022

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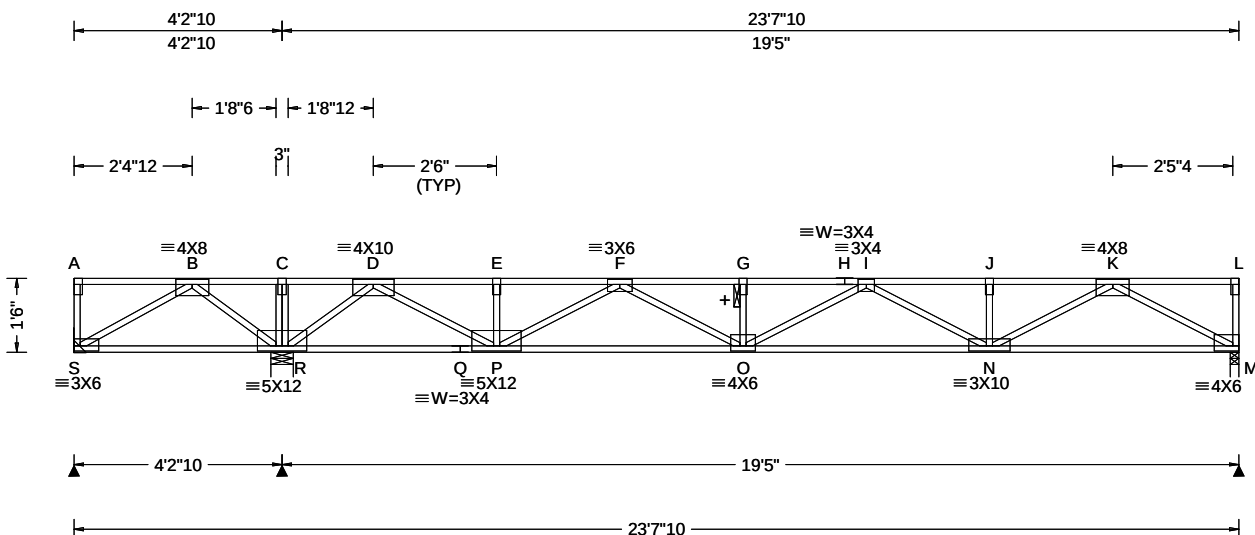
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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 34974 / FROM:	SY42	Ply: 1 Qty: 12	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F28	Cust: R 9316 JRef: 1X1493160007 T10 / DrwNo: 119.22.1623.54939 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.196 G 999 480 VERT(CL): 0.369 G 630 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.795 Max Web CSI: 0.467 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-490 /- /- /- /- R 1906 /- /- /- /- /- M 843 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Negative reaction(s) of -490# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp. Chords Tens. Comp.

S - R	0 -944	P - O	1976	0
R - Q	0 -440	O - N	2573	0
Q - P	0 -440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

S - B	1088	0	F - O	633	0
B - R	0	-1142	I - N	0	-408
R - D	0	-1649	N - K	988	0
D - P	1656	0	K - M	0	-1532
P - F	0	-1087			



04/29/2022

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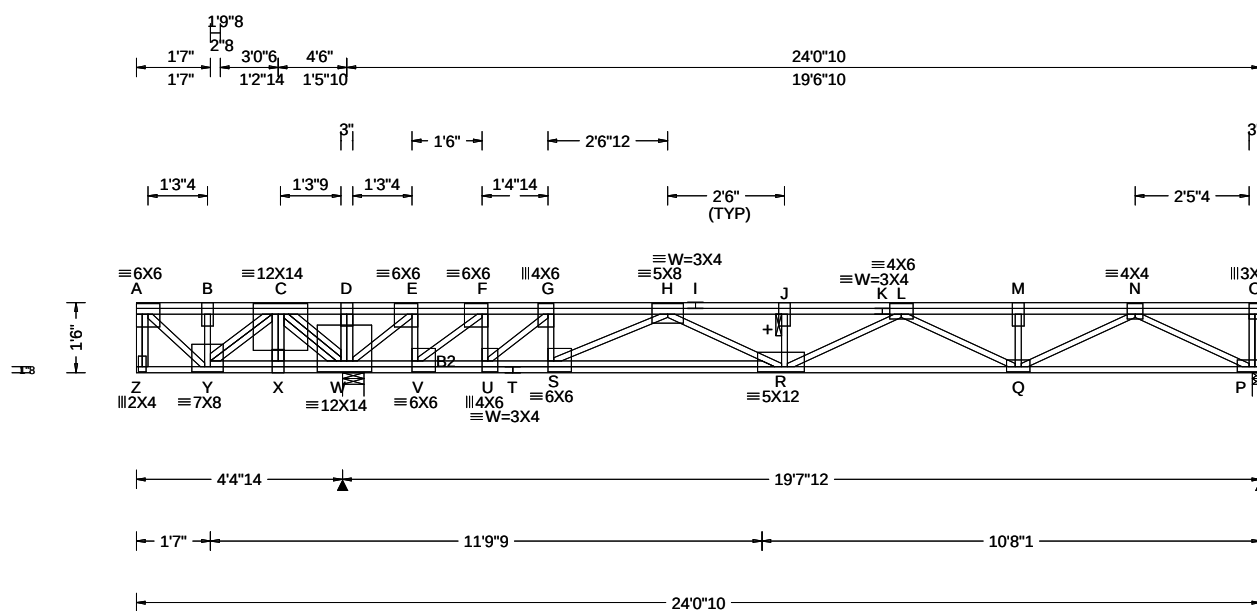
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ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 34975 FROM:	SY42 Qty: 6	Ply: 2	Job Number: JB-220689 McCambridge Brothers Construction Customer:MCCAMBRIDGE BROTHERS CONS Address:210 Truss Label: F28G	Cust: R 9316 JRef:1X1493160007 T12 DrwNo: 119.22.1634.45113 / NDW 04/29/2022
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.120 A 443 480 VERT(CL): 0.268 Z 198 360 HORZ(LL): -0.025 A - - HORZ(TL): 0.057 A - - Creep Factor: 2.0 Max TC CSI: 0.433 Max BC CSI: 0.260 Max Web CSI: 0.271 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL W 8750 -/- /- /- /- /- P 618 -/-243 /- /- /- /- W Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings W & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 597 0 H - I 1855 -383 B - C 597 0 I - J 1855 -383 C - D 5342 0 J - K 1853 -389 D - E 5337 0 K - L 1853 -389 E - F 4767 0 L - M 685 -689 F - G 4126 0 M - N 685 -689 G - H 3551 0

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.



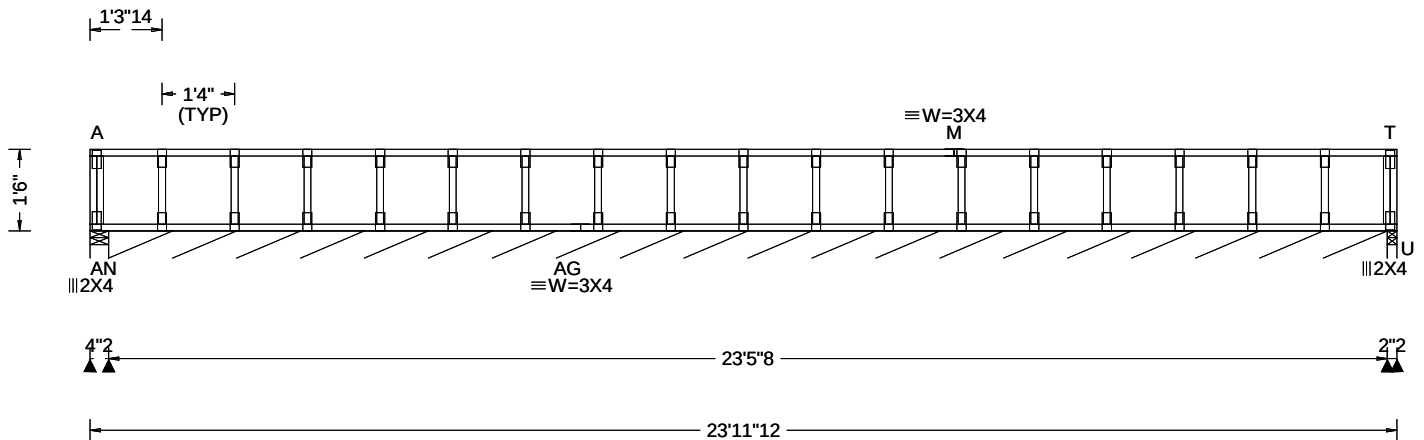
04/29/2022

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 34976 FROM:	SY42 Qty: 6	Ply: 1 Qty: 6	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: L11	Cust: R 9316 JRef: 1X1493160007 T29 DrwNo: 119.22.1634.48753 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.001 T 999 360 HORZ(LL): -0.003 B - - HORZ(TL): 0.005 B - - Creep Factor: 2.0 Max TC CSI: 0.060 Max BC CSI: 0.013 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity AN 68 -/-/-/-/- AN*97 -/-/-/-/- U 64 -/-/-/-/- AN Brg Wid = 4.1 Min Req = 1.5 (Truss) AN Brg Wid = 281 Min Req = - U Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AN, AN, & U are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal (drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



04/29/2022

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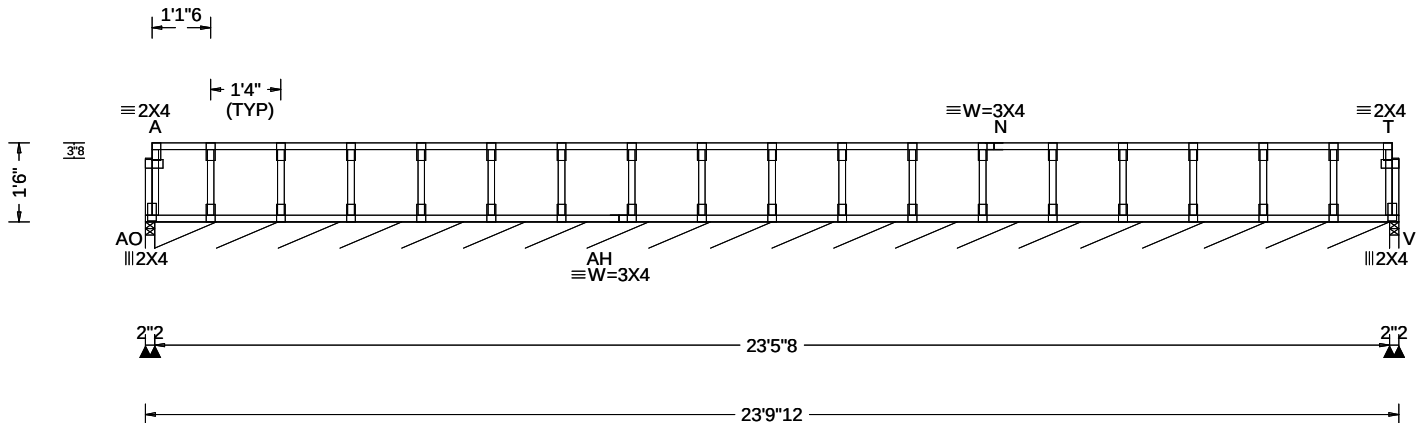
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North Building, 4th Floor
Glenview, IL 60025

SEQN: 34977 FROM:	SY42 Qty: 6	Ply: 1 Qty: 6	Job Number: JB-220689 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: L21	Cust: R 9316 JRef: 1X1493160007 T30 DrwNo: 119.22.1634.56790 / NDW 04/29/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.000 T 999 360 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.009 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL AO 48 - / - / - / - / - AO*97 - / - / - / - / - V 48 - / - / - / - / - AO Brg Wid = 2.1 Min Req = 1.5 (Truss) AO Brg Wid = 281 Min Req = - V Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AO, AO, & V are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal (drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.



04/29/2022

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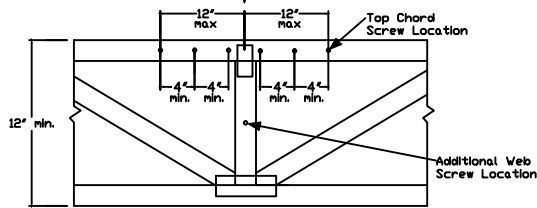


155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

Max. Concentrated Load per Chart Below

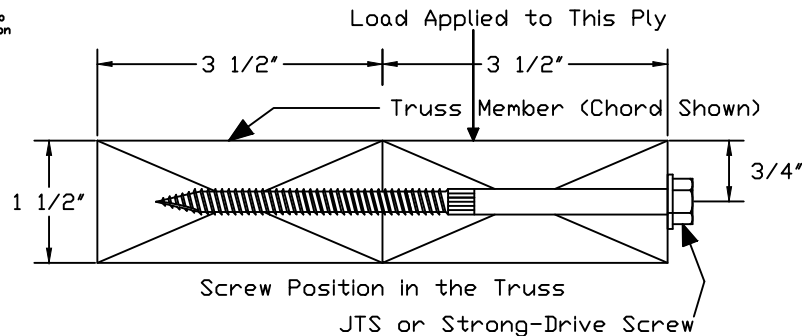


Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

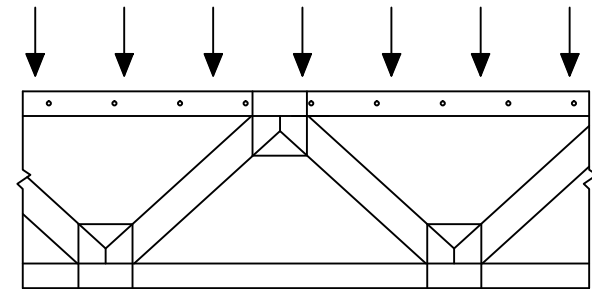
For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

Refer to Alpine sealed drawing for individual truss design.



Max. Uniform Load per Chart Below



For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200



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TC LL	PSF	REF	SY42 Connection
TC DL	PSF	DATE	01/19/2018
BC DL	PSF	DRWG	CNSY42PL0118
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



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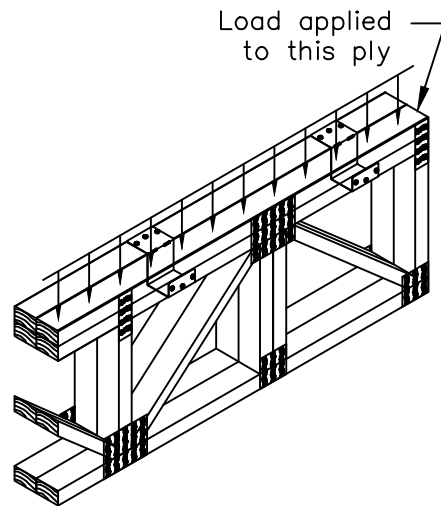
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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL FOR DOWNWARD LOADS ONLY

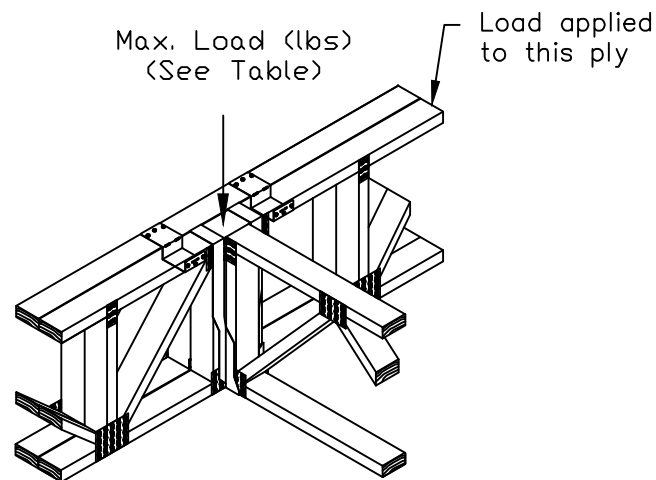
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



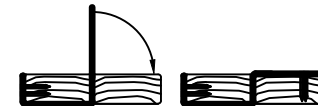
Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:

Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.
2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.

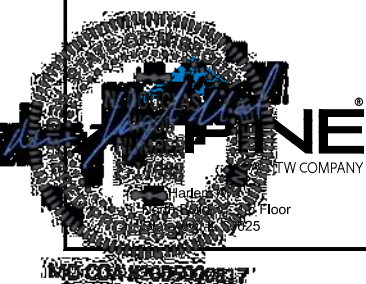


LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.



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REF SY42 Connection

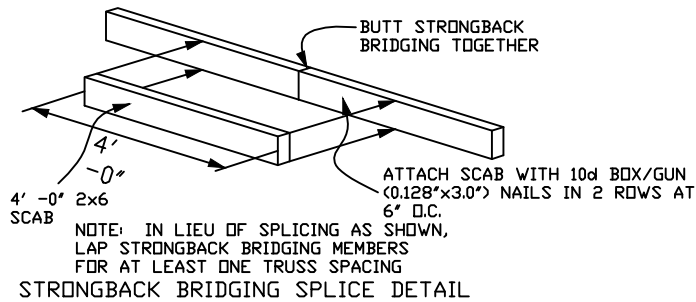
DATE 10/01/14

DRWG LSCSYX2A1014

DUR. FAC.

ALL

STRONGBACK BRIDGING RECOMMENDATIONS



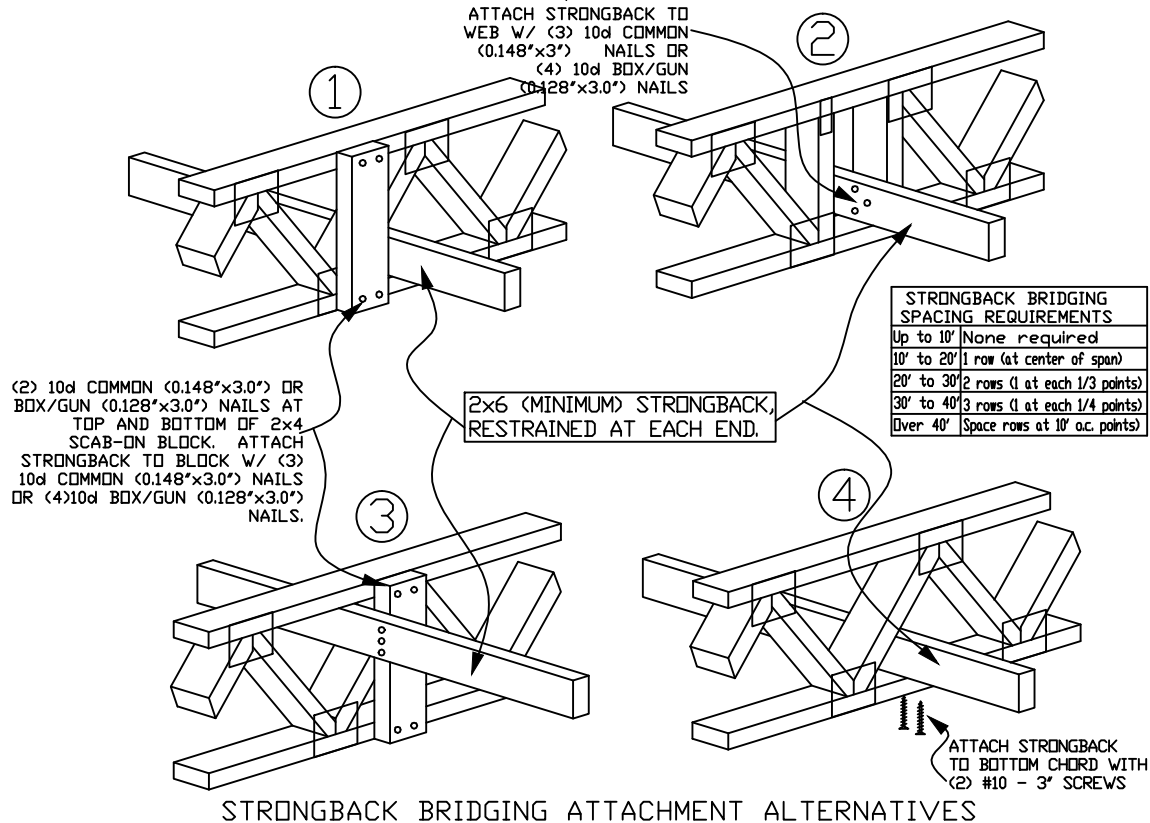
- ▶ All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- ▶ All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- ▶ The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' - 0" o.c. (max.)

- ▶ The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

NOTE: Details 1 and 2 are the preferred attachment methods



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TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			



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Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 10 Truss	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

GROUP 10 FLOOR LAYOUT



Total Truss Quantity = 585		
Symbol	Name	Qty
THA422	284 Simpson	13
THA422-2	13 Simpson	

SHOP DRAWING REVIEW

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

☐ APPROVED

☐ FURNISH AS CORRECTED

☐ REJECTED, REVISE & RESUBMIT

☐ RETURNED NOT REVIEWED

☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.

STRUCTURAL ENGINEERS

DATE 05/30/2022 BY CB

REVIEWED ☒ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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

TRI

ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.396.9750
www.triarchitects.com

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses



3253 S. Hales Rd.
Haleshead, MS 39256
(316) 830-6108

Job Name:

McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220691

Date: 5/12/2022

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/13/2022

REVIEWED ☒ DATE RECEIVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



1790 Brentwood Blvd.
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314.395.9750
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SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/30/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220691
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:		
Design Code: IBC 2018		IntelliVIEW Version: 21.02.00 JRef #: 1XfH93160008
Wind Standard: ASCE716	Wind Speed (mph): None	Design Loading (psf): 75.00
Building Type:		

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	132.22.2232.43915	F02
3	132.22.2232.45668	F11
5	132.22.2232.45371	F13
7	132.22.2232.45300	F15
9	132.22.2232.45762	F17
11	132.22.2232.45641	F18G
13	132.22.2232.45941	F19G
15	132.22.2232.45742	F22
17	132.22.2232.43925	F24
19	132.22.2232.44353	F26
21	132.22.2232.44117	F28
23	132.22.2232.45407	L11
25	CNSY42PL0118	
27	LSCSYX2A1014	

Item	Drawing Number	Truss
2	132.22.2232.45338	F03
4	132.22.2232.45472	F12
6	132.22.2232.45029	F14
8	132.22.2232.45629	F16
10	132.22.2232.43926	F18
12	132.22.2232.45880	F19
14	132.22.2232.43856	F21
16	132.22.2232.45249	F23
18	132.22.2232.45509	F25
20	132.22.2232.43924	F27
22	132.22.2232.43904	F28G
24	132.22.2232.45633	L21
26	DEFLCAMB1014	
28	STRBRIBR1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)**Key to Terms:**

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

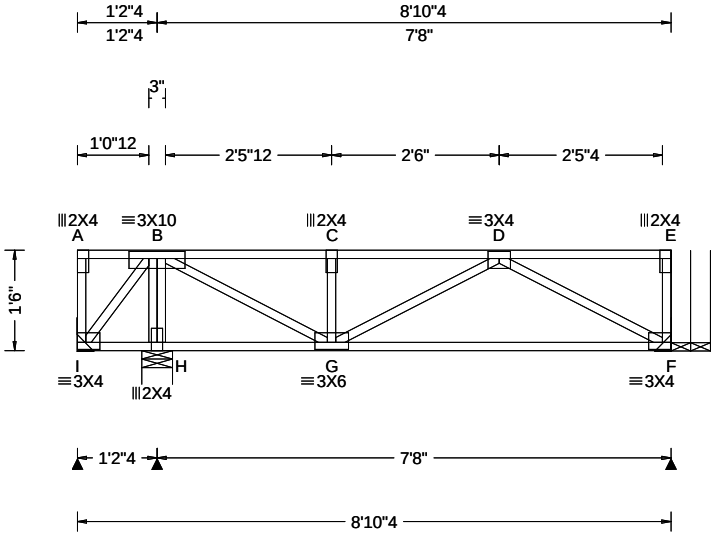
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

SEQN: 97521 / FROM:	SY42 Qty: 117	Ply: 1 Qty: 117	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F02	Cust: R 9316 JRef:1XH93160008 T6 DrwNo: 132.22.2232.43915 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.018 C 999 480 VERT(CL): 0.034 C 999 360 HORZ(LL): 0.002 F - - HORZ(TL): 0.004 F - - Creep Factor: 2.0 Max TC CSI: 0.299 Max BC CSI: 0.301 Max Web CSI: 0.162 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 28 /-43 /- /- /- /- H 525 /- /- /- /- /- F 372 /- /- /- /- /- I Brg Wid = - Min Req = - H Brg Wid = 5.5 Min Req = 1.5 (Truss) F Brg Wid = - Min Req = - Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

G - F 473 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

B - H 0 -499 D - F 0 -537
B - G 576 0



05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

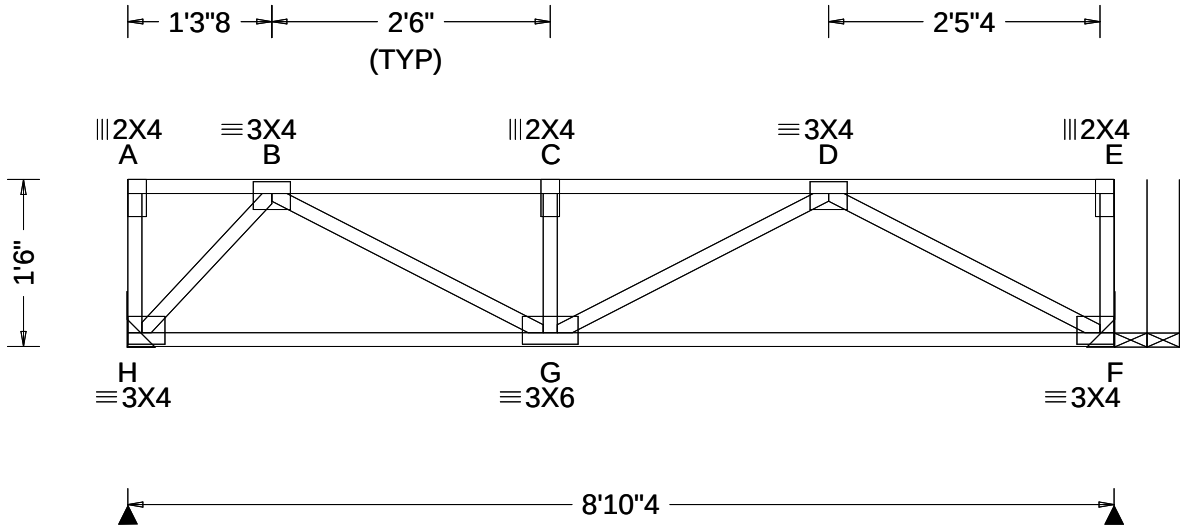
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 97523 / FROM:	SY42	Ply: 1 Qty: 13	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F03	Cust: R 9316 JRef:1XH93160008 T7 / DrwNo: 132.22.2232.45338 / NDW 05/12/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.024 C 999 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.046 C 999 360		H	443	/-	/-	/-	/-	/-	
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): 0.004 B - -		F	443	/-	/-	/-	/-	/-	
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code: IBC 2018		HORZ(TL): 0.008 B - -		H Brg Wid = -		Min Req = -					
NCBCLL: 0.00		Mean Height: NA ft				Creep Factor: 2.0		F Brg Wid = -		Min Req = -					
Soffit: 0.00		TCDL: NA psf		TPI Std: 2014		Max TC CSI: 0.298		Members not listed have forces less than 375#							
Load Duration: 1.00		BCDL: NA psf		Rep Fac: Yes		Max BC CSI: 0.324		Maximum Top Chord Forces Per Ply (lbs)							
Spacing: 16.0 "		MWFRS Parallel Dist: NA		FT/RT:12(0)/10(0)		Max Web CSI: 0.141		Chords		Tens.Comp.		Chords		Tens. Comp.	
		C&C Dist a: NA ft		Plate Type(s):				B - C		0 -747		C - D		0 -747	
		Loc. from endwall: NA		WAVE		VIEW Ver: 21.02.00.1005.17		Maximum Bot Chord Forces Per Ply (lbs)							
		I: NA GCpi: NA													
		Wind Duration: NA													

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.

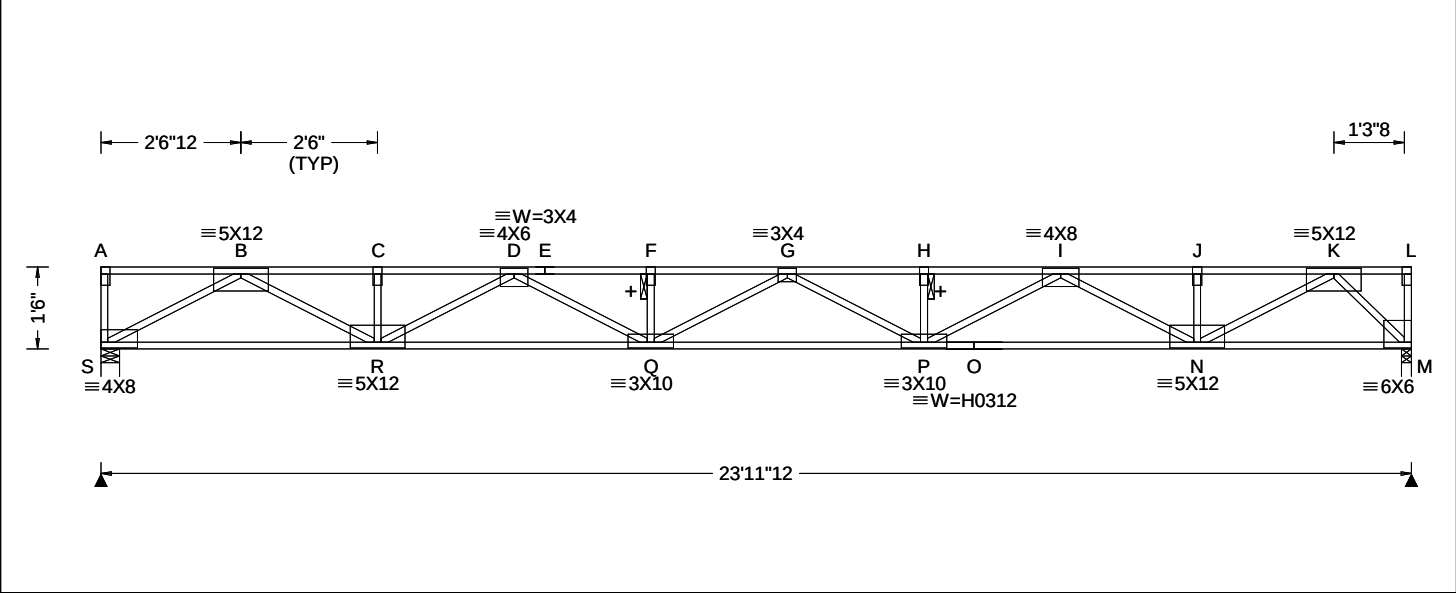


05/13/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 97525 / FROM:	SY42 Qty: 96	Ply: 1 Qty: 96	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F11	Cust: R 9316 JRef:1XH93160008 T28 / DrwNo: 132.22.2232.45668 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.414 G 695 480 VERT(CL): 0.775 G 371 360 HORZ(LL): 0.057 M - - HORZ(TL): 0.107 M - - Creep Factor: 2.0 Max TC CSI: 0.398 Max BC CSI: 0.672 Max Web CSI: 0.551 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1199 /- /- /- /- /- M 1199 /- /- /- /- /- S Brg Wid = 4.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3522 G - H 0 - 4917 C - D 0 - 3522 H - I 0 - 4917 D - E 0 - 5123 I - J 0 - 2895 E - F 0 - 5123 J - K 0 - 2895 F - G 0 - 5123

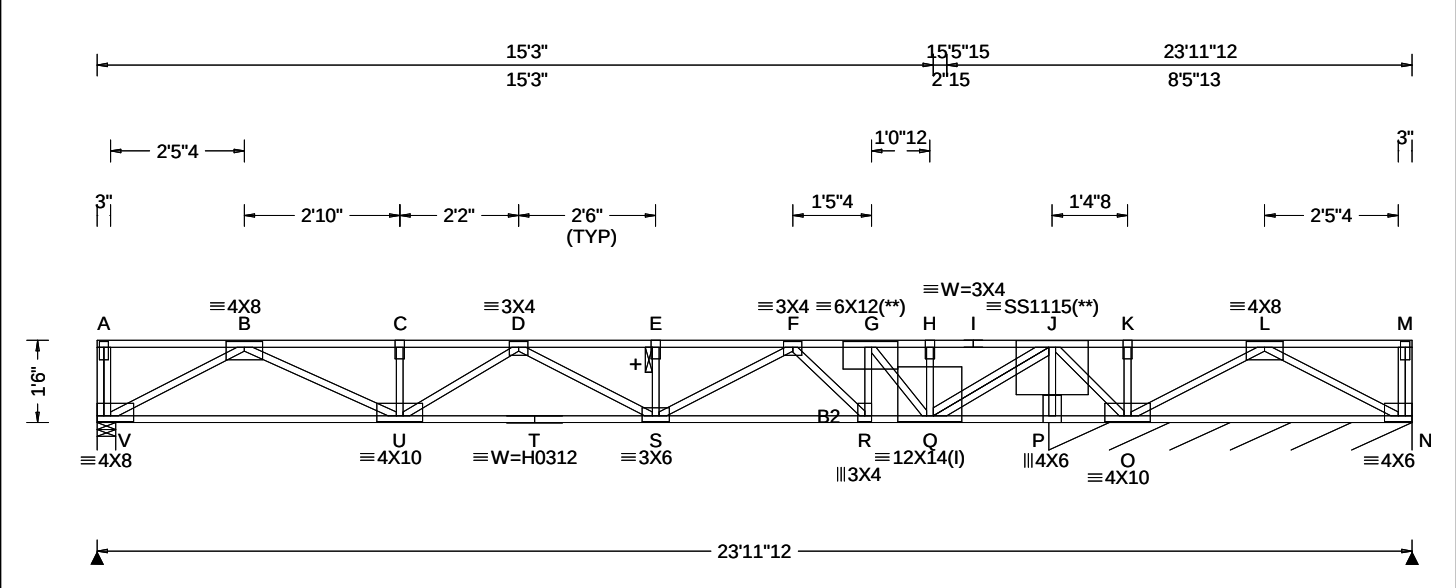
Lumber Top chord: 4x2 DF-L 2400f-2.0E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;	Plating Notes All plates are 2X4 except as noted.	Deflection Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. S - R 2010 0 P - O 4106 0 R - Q 4523 0 O - N 4106 0 Q - P 5219 0 N - M 1183 0	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - B 0 - 2281 P - I 925 0 B - R 1725 0 I - N 0 - 1382 R - D 0 - 1143 N - K 1954 0 D - Q 684 0 K - M 0 - 1648
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05/13/2022

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SEQN: 97529 / FROM:	SY42 Qty: 6	Ply: 1 Qty: 6	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F12	Cust: R 9316 JRef:1XH93160008 T1 / DrwNo: 132.22.2232.45472 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.201 E 999 480 VERT(CL): 0.377 E 545 360 HORZ(LL): 0.029 B - - HORZ(TL): 0.054 B - - Creep Factor: 2.0 Max TC CSI: 0.946 Max BC CSI: 0.960 Max Web CSI: 0.568 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL V 961 -/-/-/-/-/- N* 443 -/-/-/-/-/- N -/-304 V Brg Wid = 4.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2615 G - H 0 -818 C - D 0 -2615 H - I 0 -818 D - E 0 -3202 I - J 0 -818 E - F 0 -3202 J - K 2031 0 F - G 0 -2426 K - L 2031 0

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;
Special Loads
-----(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes
All plates are 2X4 except as noted.
(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

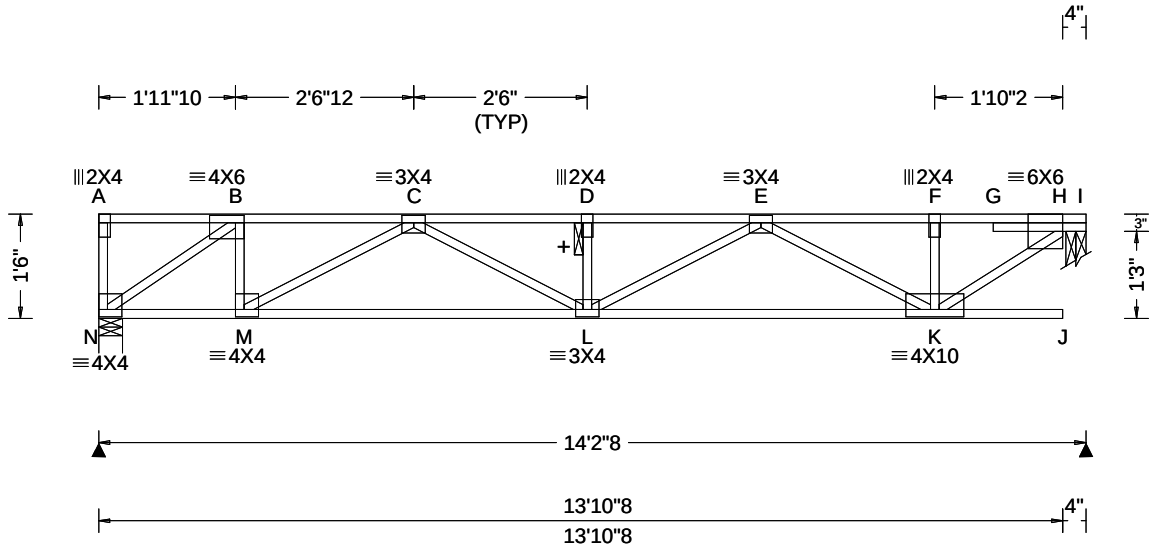
Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.



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Building 10

SEQN: 97531 / FROM:	SY42 Qty: 6	Ply: 1 Qty: 6	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F13	Cust: R 9316 JRef:1XH93160008 T23 / DrwNo: 132.22.2232.45371 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.096 D 999 480 VERT(CL): 0.179 D 942 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.620 Max BC CSI: 0.537 Max Web CSI: 0.329 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 702 -/- -/- -/- -/- H 714 -/- -/- -/- -/- N Brg Wid = 4.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -943 E - F 0 -943 C - D 0 -1836 F - H 0 -942 D - E 0 -1836

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	905 0	L - K	1574 0
M - L	1582 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1104	E - K	0 -721
B - M	416 0	K - H	1166 0
M - C	0 -734		

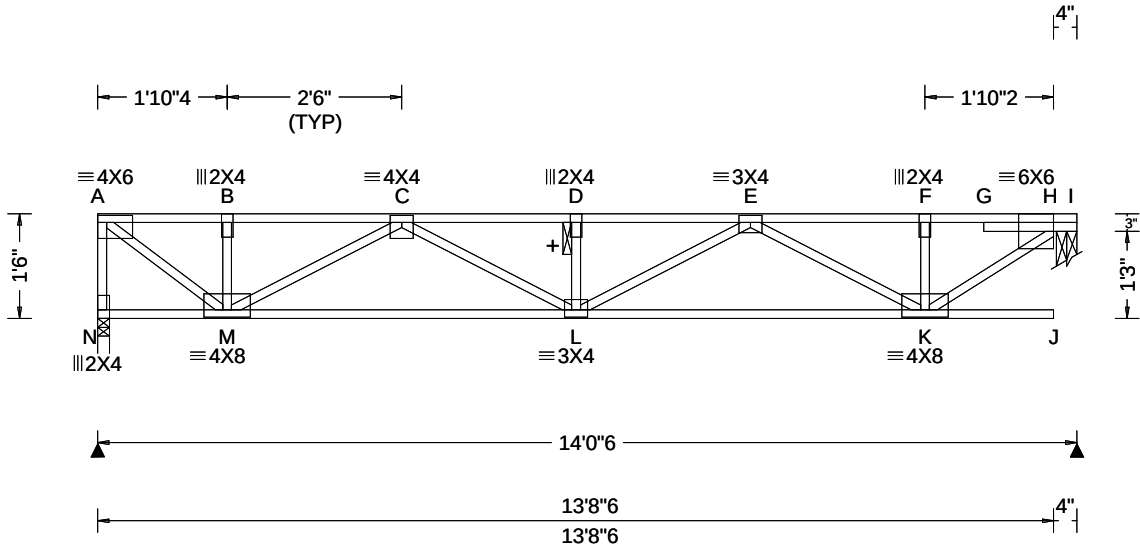


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SEQN: 97533 / FROM:	SY42 Qty: 6	Ply: 1 Qty: 6	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F14	Cust: R 9316 JRef:1XH93160008 T15 / DrwNo: 132.22.2232.45029 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.093 D 999 480 VERT(CL): 0.174 D 955 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.612 Max BC CSI: 0.524 Max Web CSI: 0.324 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 693 /- /- /- /- /- H 706 /- /- /- /- /- N Brg Wid = 2.0 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -849 D - E 0 -1791 B - C 0 -849 E - F 0 -929 C - D 0 -1791 F - H 0 -929

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1520 0	L - K	1546 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -690	E - K	0 -703
A - M	1057 0	K - H	1150 0
M - C	0 -766		

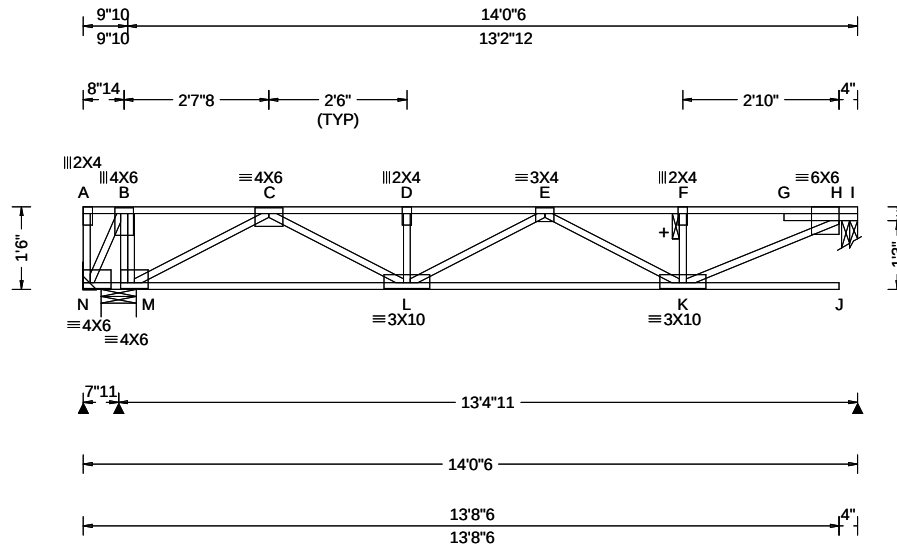


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SEQN: 97535 / FROM:	SY42 Ply: 1 Qty: 6	Job Number: JB-220691 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F15	Cust: R 9316 JRef: 1XIH93160008 T26 / DrwNo: 132.22.2232.45300 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.200 J 780 480	Non-Gravity
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.320 J 487 360	Loc R+ / R- / Rh / Rw / U / RL
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.011 C - -	N - /-708 /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.020 C - -	N 1480 /- /- /- /- /-
NCBCLL: 0.00	Mean Height: NA ft		Creep Factor: 2.0	H 618 /- /- /- /- /-
Soffit: 0.00	TCDL: NA psf	Building Code:	Max TC CSI: 0.961	N Brg Wid = - Min Req = -
Load Duration: 1.00	BCDL: NA psf	IBC 2018	Max BC CSI: 0.588	N Brg Wid = 7.7 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	TPI Std: 2014	Max Web CSI: 0.339	H Brg Wid = 3.5 Min Req = 1.5 (Truss)
	C&C Dist a: NA ft	Rep Fac: Yes		Bearings N & H are a rigid surface.
	Loc. from endwall: NA	FT/RT:12(0)/10(0)		Members not listed have forces less than 375#
	I: NA GCpi: NA	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	Wind Duration: NA	WAVE	VIEW Ver: 21.02.00.1005.17	Chords Tens.Comp. Forces Tens. Comp.

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail
DEFLCAMB1014 for camber recommendations.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

B - C	400	0	E - F	0	-1087
C - D	0	-1207	F - H	0	-1088
D - E	0	-1207			

Chords	Tens.	Comp.	Chords	Tens.	Comp.
M - L	600	0	L - K	1318	0

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	685 0	C - L	693 0
B - M	0 - 840	K - H	1201 0
M - C	0 - 1141		



~~05/13/2022~~

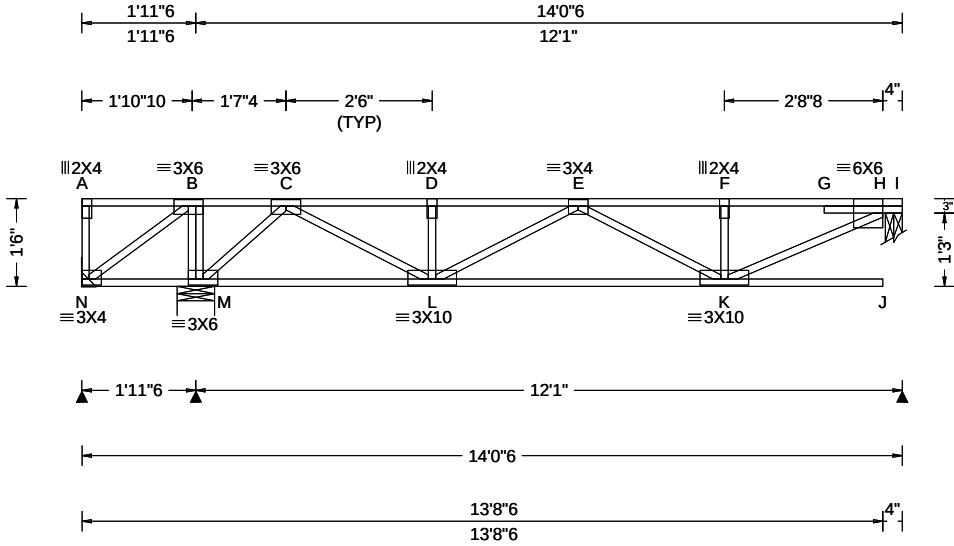
05/13/2022
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBCA: sbaccomponents.com; ICC: iccsafe.org; AWC: awc.org

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AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 97537 / FROM:	SY42	Ply: 1 Qty: 6	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F16	Cust: R 9316 JRef:1XH93160008 T33 / DrwNo: 132.22.2232.45629 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.159 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.283 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-323 /- /- /- /- M 1131 /- /- /- /- /- I 547 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 SPF #1/#2; Bot chord: 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. N - M 0 -469 L - K 1034 0
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Deflection Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 580 0 C - L 816 0 B - M 0 -512 K - H 1004 0 M - C 0 -842
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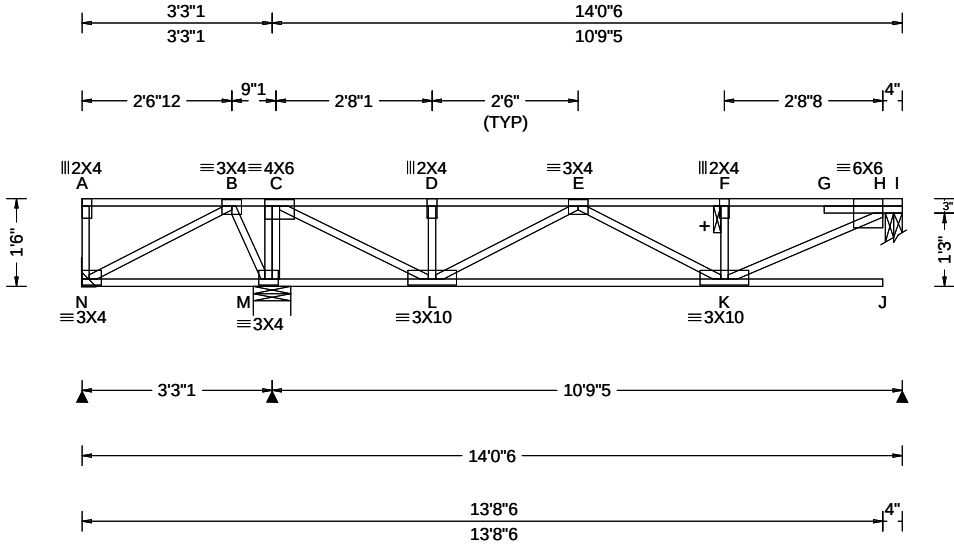
Additional Notes See detail STRBRIBR1014 for bracing and bridging recommendations. Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less. Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. Truss must be installed as shown with top chord up.	
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SEQN: 97539 / FROM:	SY42	Ply: 1 Qty: 6	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F17	Cust: R 9316 JRef:1XH93160008 T20 / DrwNo: 132.22.2232.45762 / NDW 05/12/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/def L/#			Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.147 J 870 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.233 J 550 360			N	57	/-122	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): 0.004 C - -			M	959	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE			HORZ(TL): 0.007 C - -			I	491	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft					Creep Factor: 2.0			N Brg Wid = - Min Req = -						
Soffit: 0.00		TCDL: NA psf					Max TC CSI: 0.749			M Brg Wid = 7.7 Min Req = 1.5 (Truss)						
Load Duration: 1.00		BCDL: NA psf					Max BC CSI: 0.437			I Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Spacing: 16.0 "		MWFRS Parallel Dist: NA					Max Web CSI: 0.272			Bearings M & H are a rigid surface.						
		C&C Dist a: NA ft								Members not listed have forces less than 375#						
		Loc. from endwall: NA								Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA								Chords Tens.Comp. Chords Tens. Comp.						
		Wind Duration: NA														
							VIEW Ver: 21.02.00.1005.17									

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.			
L - K	818	0		
Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens.	Comp.
M - C	0	- 627	K - H	874
C - L	963	0		

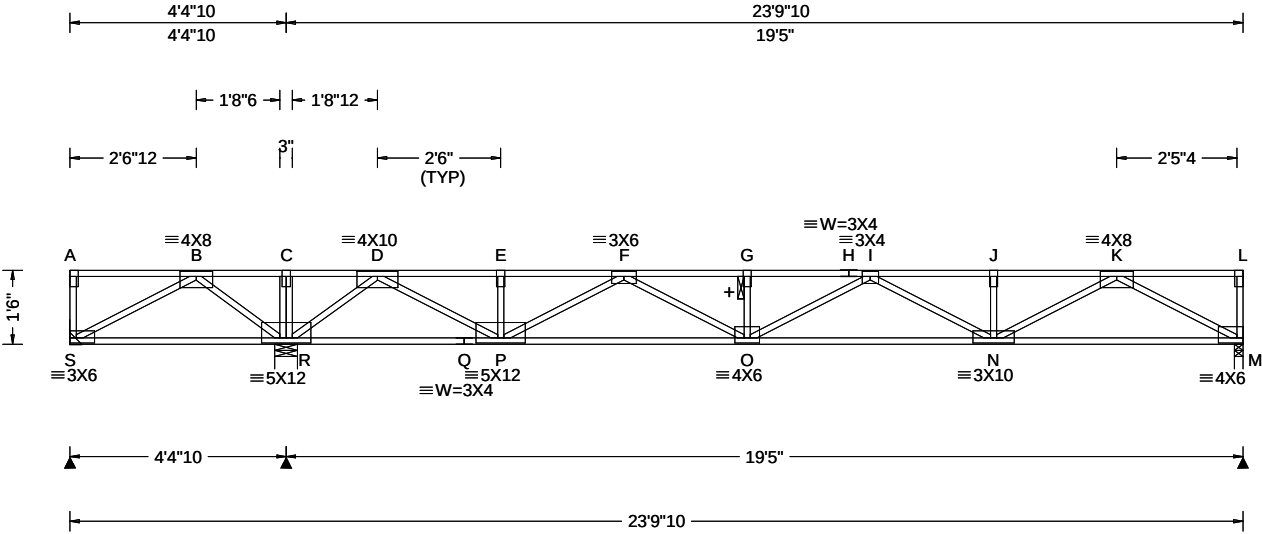


05/13/2022

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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 97541 / FROM:	SY42 Ply: 1 Qty: 12	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F18	Cust: R 9316 JRef:1XH93160008 T16 / DrwNo: 132.22.2232.43926 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.197 G 999 480 VERT(CL): 0.371 G 628 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.796 Max Web CSI: 0.466 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-458 /- /- /- /- R 1886 /- /- /- /- /- M 844 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Negative reaction(s) of -458# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
S - R	0 -955	P - O	1987	0
R - Q	0 -427	O - N	2580	0
Q - P	0 -427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens. Comp.	
S - B	1084	F - O	631	0
B - R	0 -1117	I - N	0	-411
R - D	0 -1648	N - K	991	0
D - P	1653	K - M	0	-1535
P - F	0 -1085			

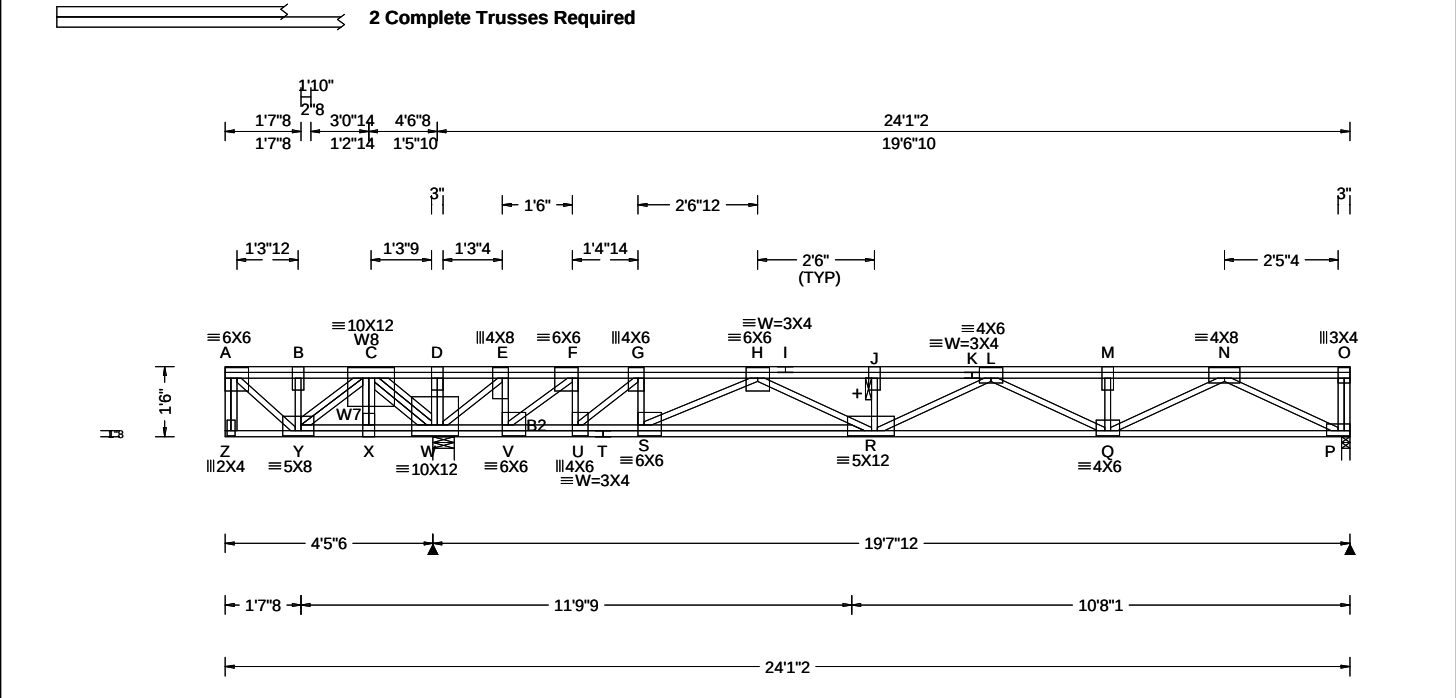


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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCEA: sbceacomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 97543 / FROM:	SY42 Qty: 6	Ply: 2	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F18G	Cust: R 9316 JRef:1XH93160008 T17 / DrwNo: 132.22.2232.45641 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.124 Z 435 480 VERT(CL): 0.263 Z 408 360 HORZ(LL): -0.027 A - - HORZ(TL): 0.058 A - - Creep Factor: 2.0 Max TC CSI: 0.885 Max BC CSI: 0.247 Max Web CSI: 0.249 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W 8317 -/- /- /- /- /- P 962 -/-165 /- /- /- /- W Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings W & P are a rigid surface. Members not listed have forces less than 375#										
Maximum Top Chord Forces Per Ply (lbs)										
Chords			Tens.Comp.		Chords			Tens. Comp.		
A - B	420	0	H - I	1554	-1705					
B - C	420	0	I - J	1554	-1705					
C - D	4753	0	J - K	1551	-1711					
D - E	4749	0	K - L	1551	-1711					
E - F	4209	-367	L - M	534	-1347					
F - G	3615	-827	M - N	534	-1347					
G - H	3087	-1193								

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads
----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes
All plates are 3X6 except as noted.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



Maximum Bot Chord Forces Per Ply (lbs)

Chords		Tens.Comp.		Chords		Tens. Comp.	
Y - X	0	-1228		T - S	1169	-3130	
X - W	0	-1219		S - R	1563	-2265	
W - V	329	-4254		R - Q	1631	-993	
V - U	793	-3663		Q - P	784	-222	
U - T	1169	-3130					

Maximum Web Forces Per Ply (lbs)

Webs		Tens.Comp.		Webs		Tens. Comp.	
A - Y	0	-548		G - S	539	0	
Y - C	1053	0		S - H	0	-1139	
C - W	0	-4787		H - R	869	0	
W - E	0	-999		R - L	89	-626	
E - V	636	0		L - Q	518	-321	
V - F	0	-1035		Q - N	636	-353	
F - U	652	0		N - P	250	-860	
U - G	0	-919					

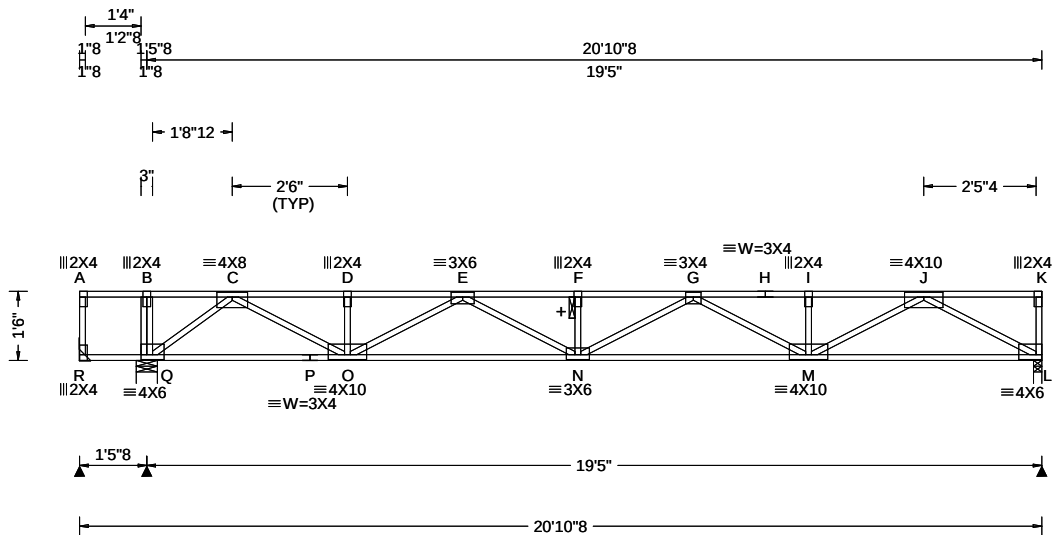
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ALPINE
AN ITW COMPANY
514 Earth City Expressway
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Building 10

SEQN: 9746 / FROM:	SY42 Qty: 78	Ply: 1 Qty: 78	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F19	Cust: R 9316 JRef:1XH93160008 T34 / DrwNo: 132.22.2232.45880 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.246 F 943 480 VERT(CL): 0.462 F 502 360 HORZ(LL): 0.038 L - - HORZ(TL): 0.072 L - - Creep Factor: 2.0 Max TC CSI: 0.485 Max BC CSI: 0.960 Max Web CSI: 0.397 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL R 27 /-42 /- /- /- /- Q 1134 /- /- /- /- /- L 962 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens. Comp.		
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.	Webs	Tens. Comp.		
Q - C	0	-1383	G - M	0	-654
C - O	1407	0	M - J	1233	0
O - E	0	-839	J - L	0	-1782
E - N	387	0			

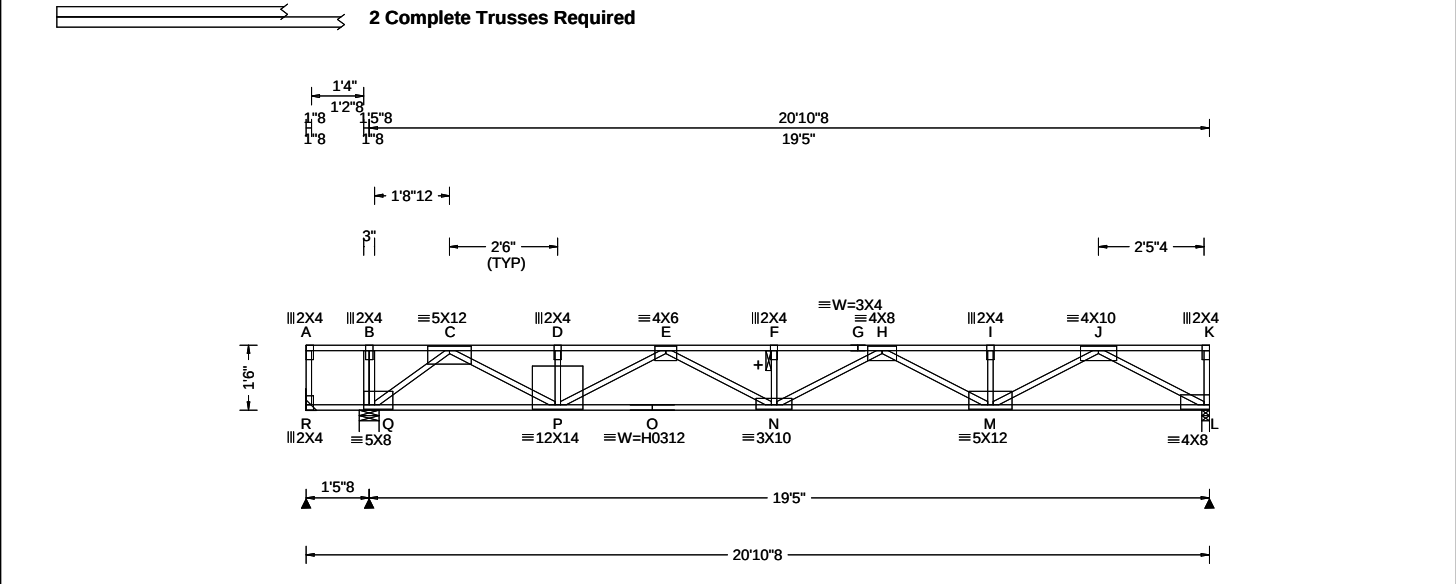


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SEQN: 9748 / FROM:	SY42 Qty: 13	Ply: 2 Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F19G	Cust: R 9316 JRef:1XH93160008 T8 / DrwNo: 132.22.2232.45941 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.290 F 799 480 VERT(CL): 0.545 F 426 360 HORZ(LL): 0.041 C - - HORZ(TL): 0.076 C - - Creep Factor: 2.0 Max TC CSI: 0.583 Max BC CSI: 0.585 Max Web CSI: 0.629 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL R 24 /-58 /- /- /- /- Q 3942 /- /- /- /- /- L 1997 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 DF-L 2400f-2.0E; Bot chord: 4x2 DF-L 2400f-2.0E; Webs: 4x2 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. Q - P 1835 0 N - M 4478 0 P - O 4877 0 M - L 1748 0 O - N 4877 0
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Special Loads ----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00) TC: From 87 plf at 0.00 to 87 plf at 20.88 BC: From 13 plf at 0.00 to 13 plf at 20.88 TC: 443 lb Conc. Load at 0.94 TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94,10.27,11.60,12.94	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. B - Q 0 -465 F - N 0 -473 Q - C 0 -2340 N - H 753 0 C - P 2229 0 H - M 0 -1437 D - P 0 -467 M - J 1679 0 P - E 0 -1242 J - L 0 -1984
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Deflection Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCMB1014 for camber recommendations.	
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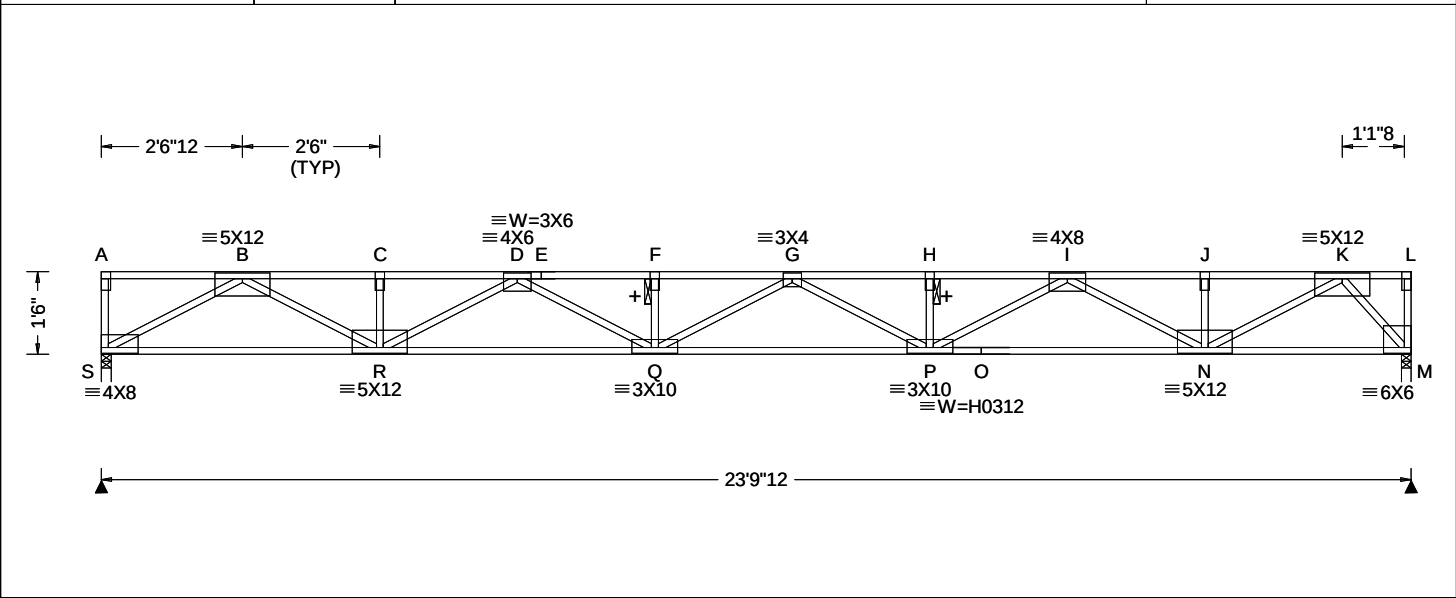
Additional Notes See DWG CNSY42PL0118 for connection details of 2 ply trusses. + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	
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SEQN: 97545 / FROM:	SY42 Qty: 112	Ply: 1 Qty: 112	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F21	Cust: R 9316 JRef:1XIH93160008 T19 / DrwNo: 132.22.2232.43856 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.419 G 682 480 VERT(CL): 0.785 G 364 360 HORZ(LL): 0.056 M - - HORZ(TL): 0.104 M - - Creep Factor: 2.0 Max TC CSI: 0.442 Max BC CSI: 0.664 Max Web CSI: 0.556 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1191 /- /- /- /- /- M 1191 /- /- /- /- /- S Brg Wid = 2.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -3491 G - H 0 -4826 C - D 0 -3491 H - I 0 -4826 D - E 0 -5062 I - J 0 -2773 E - F 0 -5062 J - K 0 -2773 F - G 0 -5062

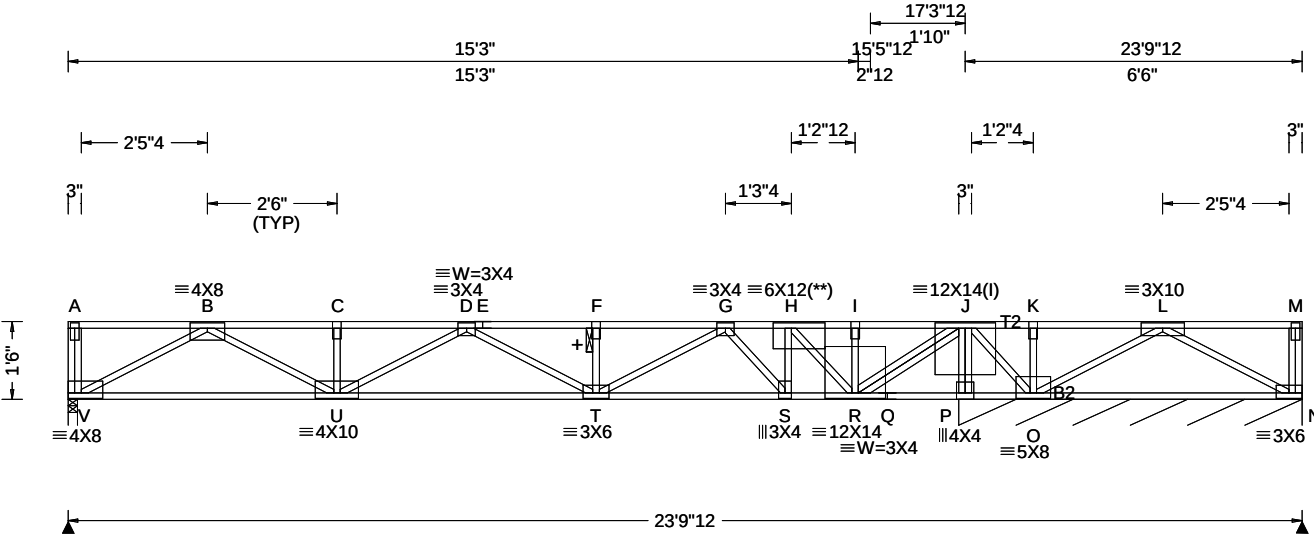
Lumber Top chord: 4x2 SPF 2100f-1.8E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;	Plating Notes All plates are 2X4 except as noted.	Deflection Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. S - R 1995 0 P - O 4000 0 R - Q 4479 0 O - N 4000 0 Q - P 5145 0 N - M 1047 0	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - B 0 -2264 P - I 942 0 B - R 1707 0 I - N 0 -1401 R - D 0 -1127 N - K 1969 0 D - Q 665 0 K - M 0 -1557
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SEQN: 97547 / FROM:	SY42 Qty: 7	Ply: 1 Qty: 7	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F22	Cust: R 9316 JRef:1XfH93160008 T2 / DrwNo: 132.22.2232.45742 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.179 F 999 480 VERT(CL): 0.335 F 613 360 HORZ(LL): 0.026 B - - HORZ(TL): 0.049 B - - Creep Factor: 2.0 Max TC CSI: 0.504 Max BC CSI: 0.472 Max Web CSI: 0.548 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL V 961 /- /- /- /- /- N* 441 /- /- /- /- /- N /-246 V Brg Wid = 2.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2565 G - H 0 -2521 C - D 0 -2565 H - I 0 -698 D - E 0 -3256 I - J 0 -698 E - F 0 -3256 J - K 1825 0 F - G 0 -3256 K - L 1825 0

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.81
BC: From 13 plf at 0.00 to 13 plf at 23.81
TC: 1500 lb Conc. Load at 13.90

Plating Notes

All plates are 2X4 except as noted.

(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

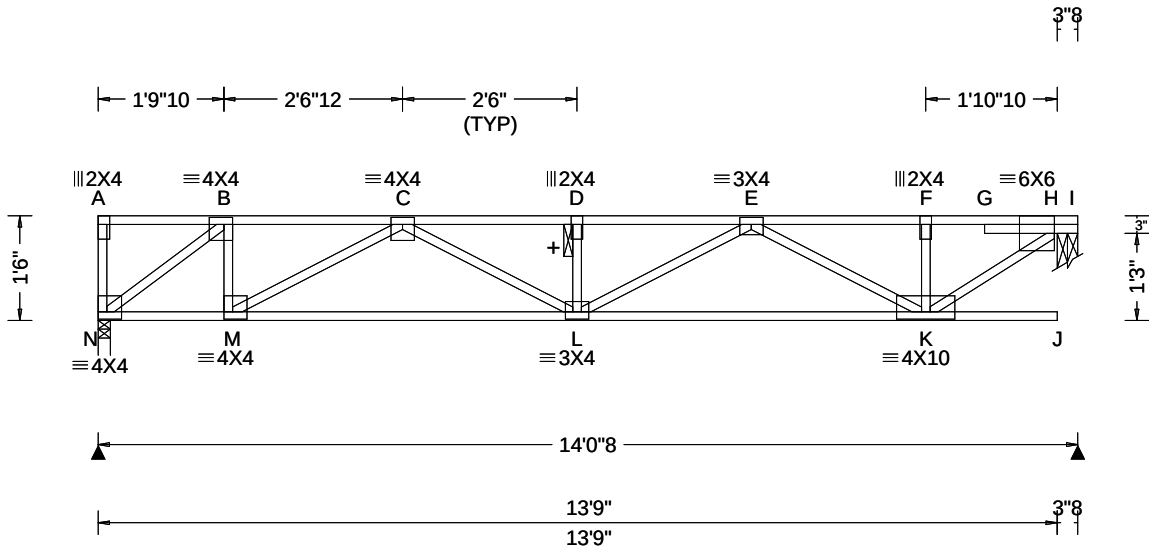


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Building 10

SEQN: 97549 / FROM:	SY42 Qty: 7	Ply: 1 Qty: 7	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F23	Cust: R 9316 JRef:1XIH93160008 T25 / DrwNo: 132.22.2232.45249 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.092 D 999 480 VERT(CL): 0.172 D 970 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.613 Max BC CSI: 0.522 Max Web CSI: 0.325 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 694 /- /- /- /- /- H 707 /- /- /- /- /- N Brg Wid = 2.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -869 E - F 0 -931 C - D 0 -1793 F - H 0 -930 D - E 0 -1793

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	831	L - K	1548
M - L	1525		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1045	E - K	0 -704
B - M	425	K - H	1152
M - C	0 -752		0

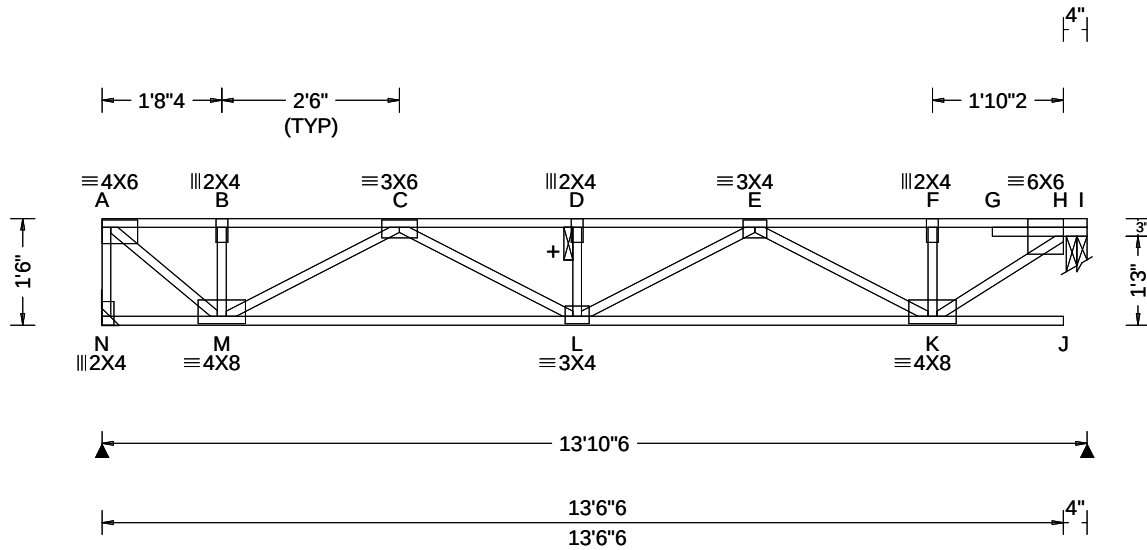


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Suite 242
Earth City, Missouri 63045

SEQN: 97551 / FROM:	SY42 	Ply: 1 Qty: 7	Job Number: JB-220691 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F24	Cust: R 9316 JRef: 1XIH93160008 T3 / DrwNo: 132.22.2232.43925 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.090 D 999 480	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.167 D 982 360	N 685 /- /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.014 B - -	H 697 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.026 B - -	N Brg Wid = - Min Req = -
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.604	Bearing H is a rigid surface.
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.513	Members not listed have forces less than 375#
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.320	Maximum Top Chord Forces Per Ply (lbs)
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Chords Tens.Comp. Chords Tens. Comp.
	Loc. from endwall: NA	Plate Type(s):		A - B 0 -776 D - E 0 -1749
	I: NA GCp: NA			B - C 0 -776 E - F 0 -917
	Wind Duration: NA	WAVE	VIEW Ver: 21.02.00.1005.17	C - D 0 1749 E - F 0 917

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1463 0	L - K	1518 0

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 - 684	E - K	0 - 687
A - M	1001 0	K - H	1134 0
M - C	0 - 784		



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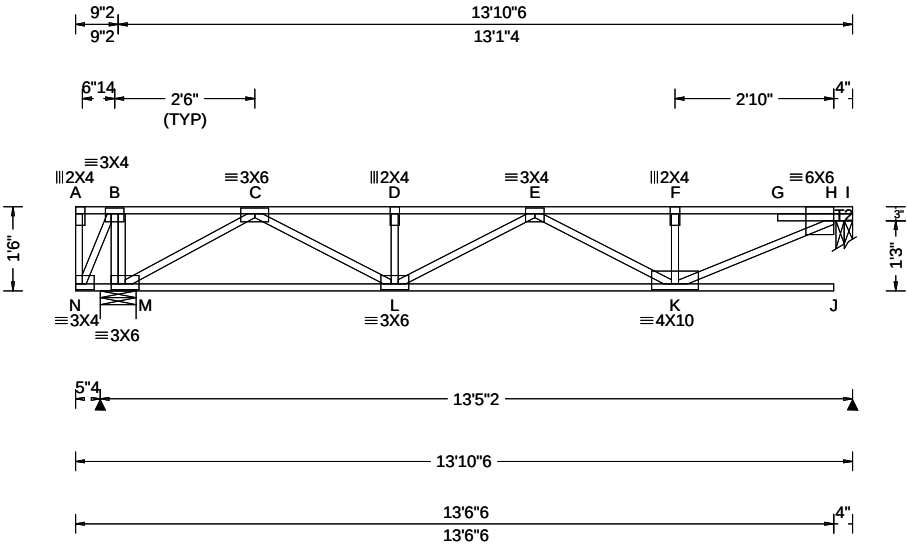
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SEQN: 97553 / FROM:	SY42	Ply: 1 Qty: 7	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F25	Cust: R 9316 JRef:1XH93160008 T11 / DrwNo: 132.22.2232.45509 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 J 784 480 VERT(CL): 0.316 J 488 360 HORZ(LL): 0.013 A - - HORZ(TL): 0.024 A - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.630 Max Web CSI: 0.367 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL M 729 /- /- /- /- /- H 659 /- /- /- /- /- M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 0 -1447 E - F 0 -1177 D - E 0 -1447 F - H 0 -1178

Lumber
Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging
recommendations.
Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
M - L	912	L - K	1482	0
Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens. Comp.	
M - C	0 -1015	K - H	1301	0
C - L	614			

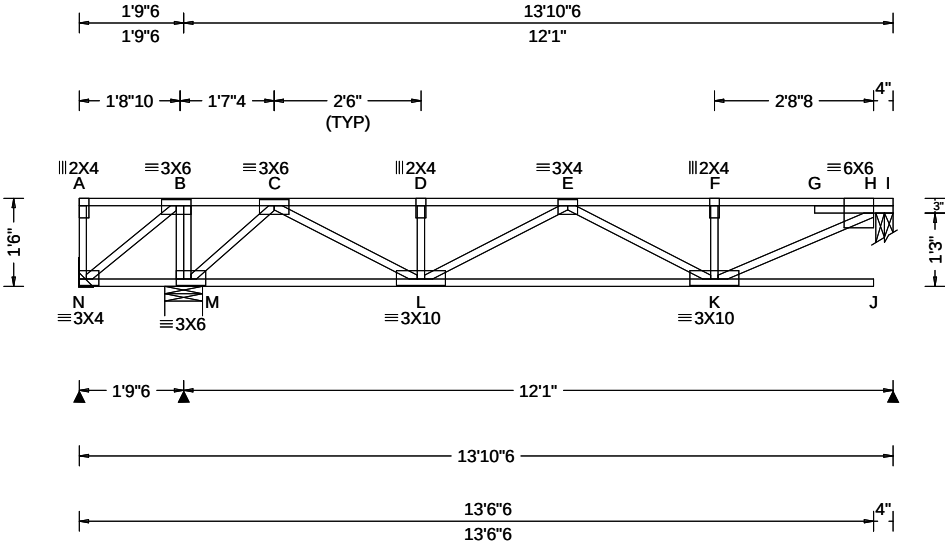


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SEQN: 97555 / FROM:	SY42	Ply: 1 Qty: 7	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F26	Cust: R 9316 JRef:1XH93160008 T5 / DrwNo: 132.22.2232.44353 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.158 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.284 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-358 /- /- /- /- M 1154 /- /- /- /- /- H 547 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
Truss must be installed as shown with top chord up.

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	510 0	E - F	0 -902
C - D	0 -819	F - H	0 -903
D - E	0 -819		

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.

N - M	0 -465	L - K	1035 0
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Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.

N - B	596 0	C - L	815 0
B - M	0 -533	K - H	1005 0
M - C	0 -843		



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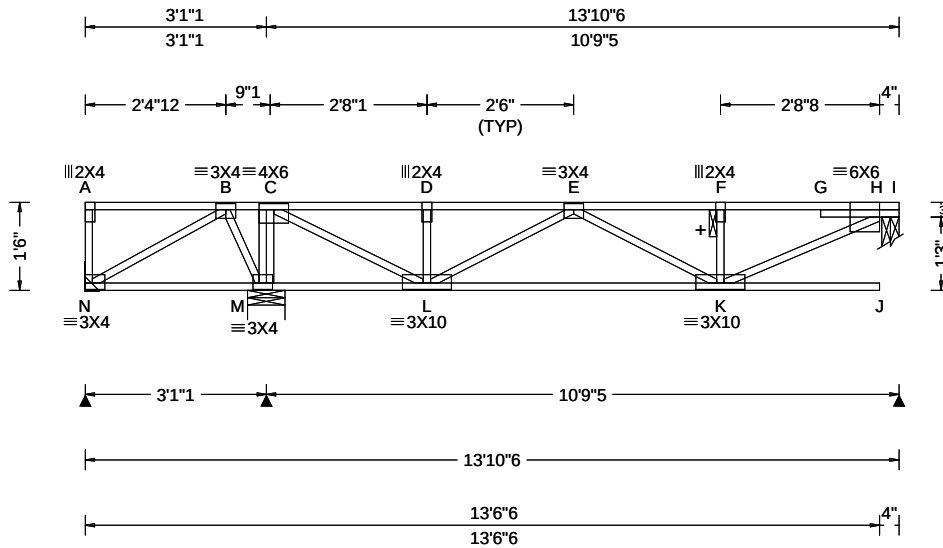
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Suite 242
Earth City, Missouri 63045

SEQN: 97557 / FROM:	SY42 	Ply: 1 Qty: 7	Job Number: JB-220691 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F27	Cust: R 9316 JRef: 1XIH93160008 T9 / DrwNo: 132.22.2232.43924 / NDW 05/12/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)								
TCLL: 40.00		Wind Std: NA		Pg: NA	Ct: NA	CAT: NA	PP Deflection in	loc	L/defl	L/#	Gravity				Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA		Ce: NA	VERT(LL):	0.147	J	869	480	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL: 0.00		Enclosure: NA		Lu: NA	Cs: NA		VERT(CL):	0.233	J	549	360	N	44	/-139	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL):	0.004	C	-	-	M	963	/-	/-	/-	/-	/-
		EXP: NA Kzt: NA					HORZ(TL):	0.007	C	-	-	H	491	/-	/-	/-	/-	/-
Des Ld: 75.00		Mean Height: NA ft				Building Code:	Creep Factor: 2.0					N	Brg Wid = -		Min Req = -			
NCBCLL: 0.00		TCDL: NA psf				IBC 2018	Max TC CSI:	0.748				M	Brg Wid = 7.7		Min Req = 1.5 (Truss)			
Soffit: 0.00		BCDL: NA psf				TPI Std: 2014	Max BC CSI:	0.436				H	Brg Wid = 3.5		Min Req = 1.5 (Truss)			
Load Duration: 1.00		MWFRS Parallel Dist: NA				Rep Fac: Yes	Max Web CSI:	0.272				Bearings M & H are a rigid surface.						
Spacing: 16.0 "		C&C Dist a: NA ft				FT/RT:12(0)/10(0)						Members not listed have forces less than 375#						
		Loc. from endwall: NA				Plate Type(s):						Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA										Chords	Tens.Comp.	Chords	Tens.	Comp.		
		Wind Duration: NA				WAVE												
												VIEW Ver: 21.02.00.1005.17						

Truss must be installed as shown with top chord up.

M - C	0	-633	K - H	872	0
C - L	964	0			



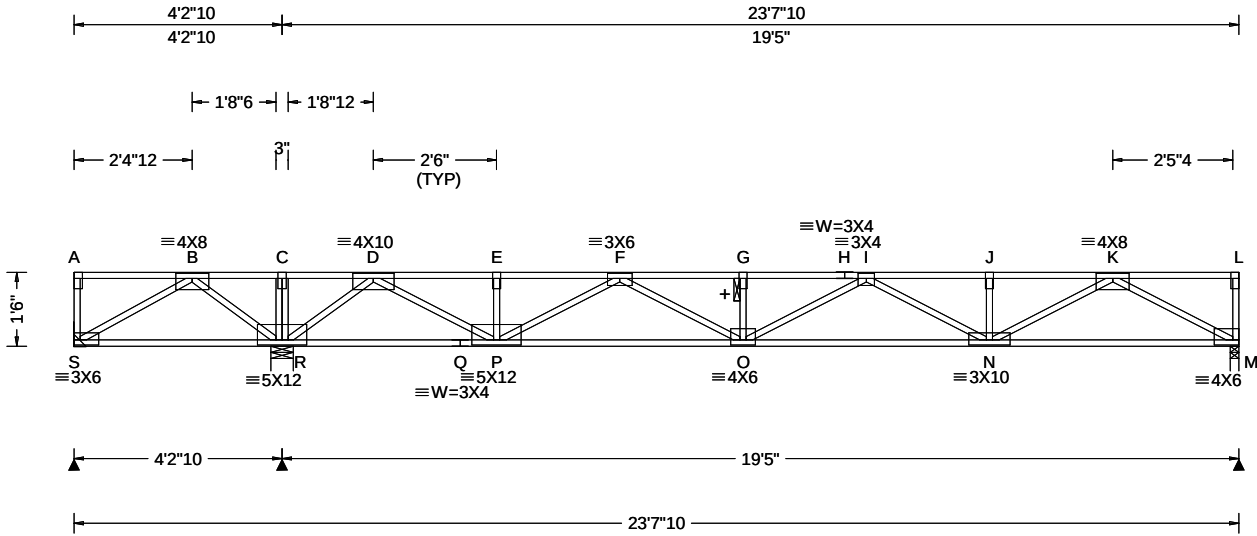
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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 10

SEQN: 97559 / FROM:	SY42 Qty: 14	Ply: 1 Qty: 14	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F28	Cust: R 9316 JRef:1XH93160008 T10 / DrwNo: 132.22.2232.44117 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.196 G 999 480 VERT(CL): 0.369 G 630 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.795 Max Web CSI: 0.467 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-490 /- /- /- /- R 1906 /- /- /- /- /- M 843 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Negative reaction(s) of -490# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens. Comp.		
S - R	0 -944	P - O	1976	0	
R - Q	0 -440	O - N	2573	0	
Q - P	0 -440	N - M	1350	0	
Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.	Webs	Tens. Comp.		
S - B	1088	F - O	633	0	
B - R	0 -1142	I - N	0	-408	
R - D	0 -1649	N - K	988	0	
D - P	1656	K - M	0	-1532	
P - F	0 -1087				

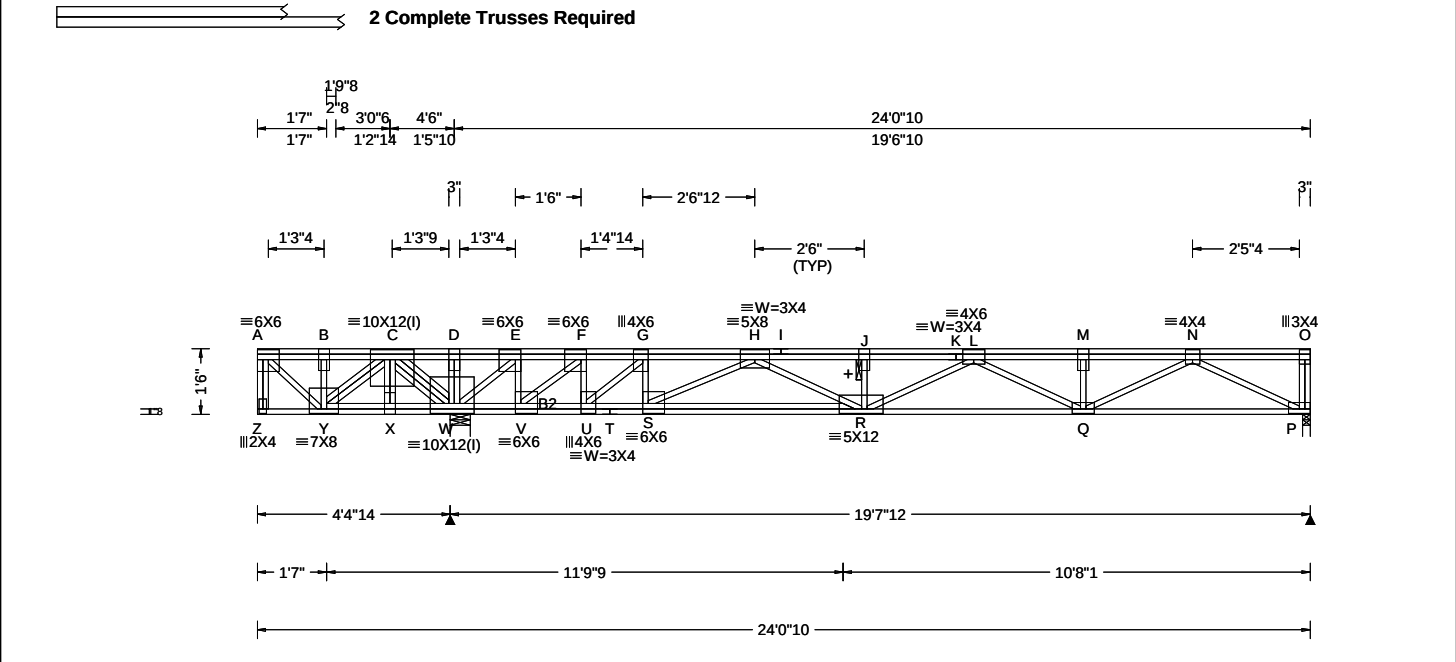


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SEQN: 97561 / FROM:	SY42 Qty: 7	Ply: 2 Qty: 7	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F28G	Cust: R 9316 JRef:1XH93160008 T12 / DrwNo: 132.22.2232.43904 / NDW 05/12/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/defl L/#			Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.120 A 443 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL	
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.268 Z 396 360			W	8750	/-	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): -0.025 A - -			P	618	/-243	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code: IBC 2018			HORZ(TL): 0.057 A - -			W Brg Wid = 5.5 Min Req = 1.5 (Truss)						
NCBCLL: 0.00		Mean Height: NA ft					P Brg Wid = 2.1 Min Req = 1.5 (Truss)									
Soffit: 0.00		TCDL: NA psf		TPI Std: 2014			Creep Factor: 2.0			Bearings W & P are a rigid surface.						
Load Duration: 1.00		BCDL: NA psf		Rep Fac: No			Max TC CSI: 0.433			Members not listed have forces less than 375#						
Spacing: 16.0 "		MWFRS Parallel Dist: NA		FT/RT:12(0)/10(0)			Max BC CSI: 0.260			Maximum Top Chord Forces Per Ply (lbs)						
		C&C Dist a: NA ft		Plate Type(s):			Max Web CSI: 0.271			Chords	Tens.Comp.	Chords	Tens. Comp.			
		Loc. from endwall: NA		WAVE			VIEW Ver: 21.02.00.1005.17			A - B	597	0	H - I	1855	-383	
		I: NA GCpi: NA								B - C	597	0	I - J	1855	-383	
		Wind Duration: NA								C - D	597	0	J - K	1853	-389	

Lumber		Special Loads	
Top chord: 4x2 DF-L 2400f-2.0E;		----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)	
Bot chord: 4x2 DF-L 2400f-2.0E;		TC: From 87 plf at 0.00 to 87 plf at 24.05	
B2 4x2 SPF #1/#2;		BC: From 13 plf at 0.00 to 13 plf at 24.05	
Webs: 4x2 SPF #1/#2;		TC: 1129 lb Conc. Load at 0.12	
		TC: 5500 lb Conc. Load at 3.03	

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From 87 plf at 0.00 to 87 plf at 24.05

BC: From 13 plf at 0.00 to 13 plf at 24.05

TC: 1129 lb Conc. Load at 0.12

TC: 5500 lb Conc. Load at 3.03

Plating Notes

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Y - X	0 - 1645	T - S	0 - 3597
X - W	0 - 1635	S - R	0 - 2646
W - V	0 - 4815	R - Q	647 - 1215
V - U	0 - 4178	Q - P	456 - 296
U - T	0 - 3597		

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum

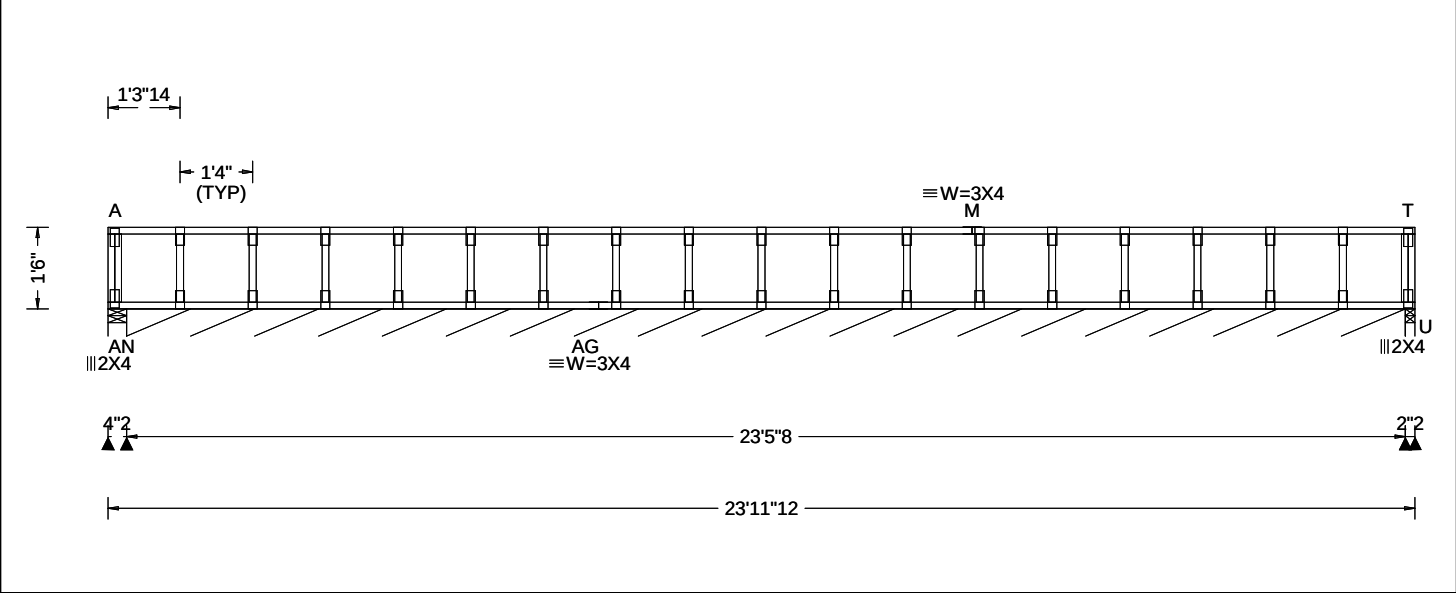
Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens.	Comp.
A - Y	0 - 789	G - S	577	0
Y - C	1366 0	S - H	0	-1230
C - W	0 - 5021	H - R	961	0
W - E	0 - 1030	R - L	0	-716
E - V	677 0	L - Q	599	0
V - F	0 - 1093	Q - N	264	-439
F - U	694 0	N - P	330	-495
U - G	0 - 980			



		05/13/2022	
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For more information see these web sites: Alpine: alpineitw.com ; TPI: tpinst.org ; SBCA: sbcacomponents.com ; ICC: iccsafe.org ; AWC: awc.org			
		 514 Earth City Expressway Suite 242 Earth City, Missouri 63045	

Building 10

SEQN: 97563 / FROM:	SY42 Qty: 6	Ply: 1 Qty: 6	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L11	Cust: R 9316 JRef:1XH93160008 T29 / DrwNo: 132.22.2232.45407 / NDW 05/12/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs), or *≡PLF						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/defl L/#			Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.000 T 999 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.001 T 999 360			AN 68	/-	/-	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): -0.003 B - -			AN*97	/-	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE			HORZ(TL): 0.005 B - -			U 64	/-	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft					Creep Factor: 2.0			AN Brg Wid = 4.1 Min Req = 1.5 (Truss)						
Soffit: 0.00		TCDL: NA psf					Max TC CSI: 0.060			AN Brg Wid = 281 Min Req = -						
Load Duration: 1.00		BCDL: NA psf					Max BC CSI: 0.013			U Brg Wid = 2.1 Min Req = 1.5 (Truss)						
Spacing: 16.0 "		MWFRS Parallel Dist: NA					Max Web CSI: 0.018			Bearings AN, AN, & U are a rigid surface.						
		C&C Dist a: NA ft					VIEW Ver: 21.02.00.1005.17			Members not listed have forces less than 375#						
		Loc. from endwall: NA														
		I: NA GCpi: NA														
		Wind Duration: NA														

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



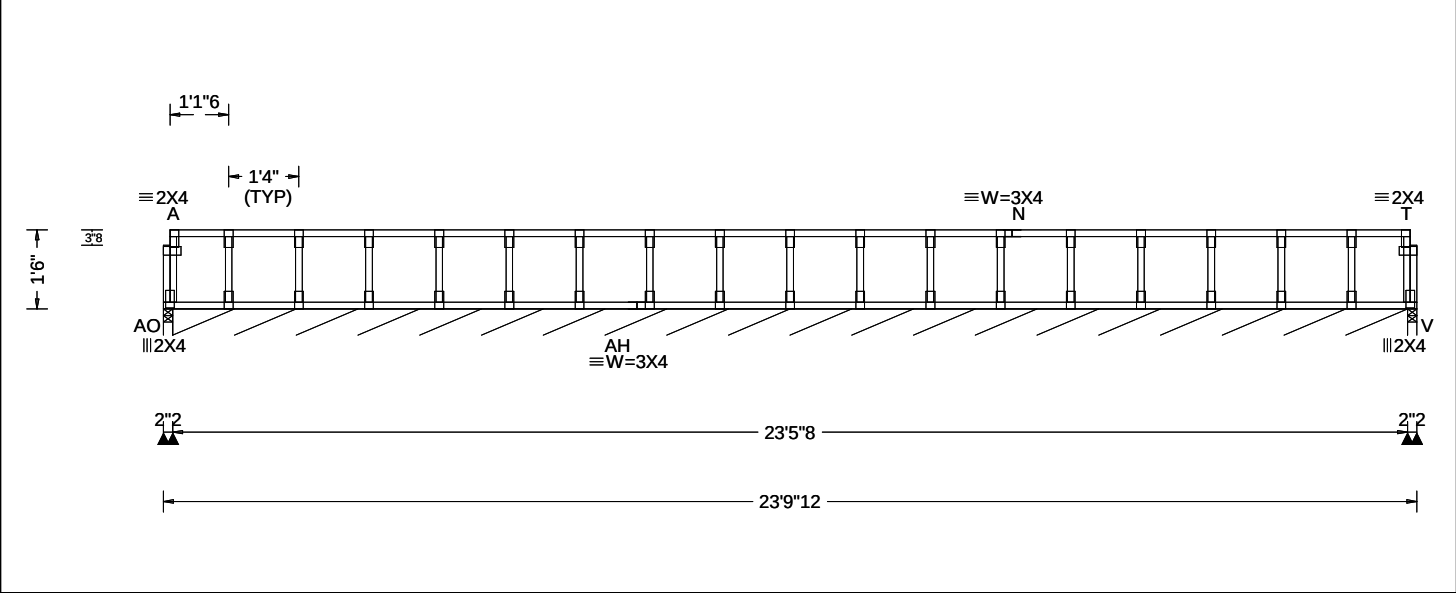
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Building 10

SEQN: 97565 / FROM:	SY42 Qty: 7	Ply: 1 Qty: 7	Job Number: JB-220691 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L21	Cust: R 9316 JRef:1XfH93160008 T30 / DrwNo: 132.22.2232.45633 / NDW 05/12/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.000 T 999 360 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.009 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity AO 48 -/-/-/-/- AO*97 -/-/-/-/- V 48 -/-/-/-/- AO Brg Wid = 2.1 Min Req = 1.5 (Truss) AO Brg Wid = 281 Min Req = - V Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AO, AO, & V are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.
Provide for complete drainage of roof.
Truss must be installed as shown with top chord up.



05/13/2022

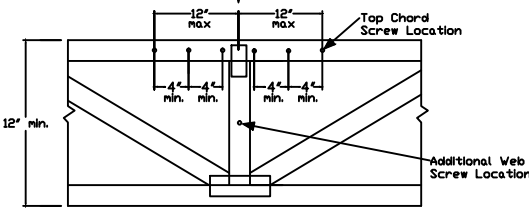
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System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

Max. Concentrated Load per Chart Below



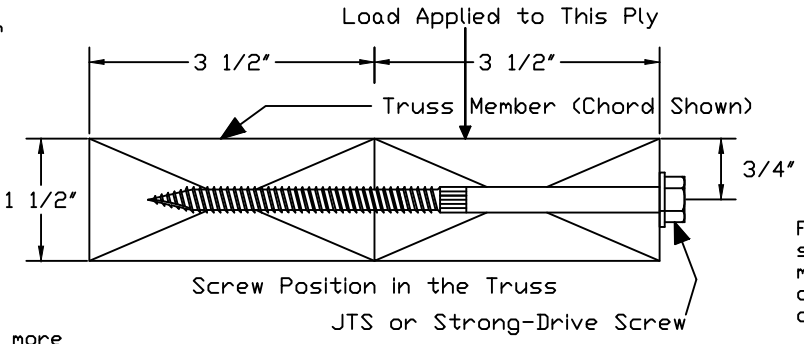
Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

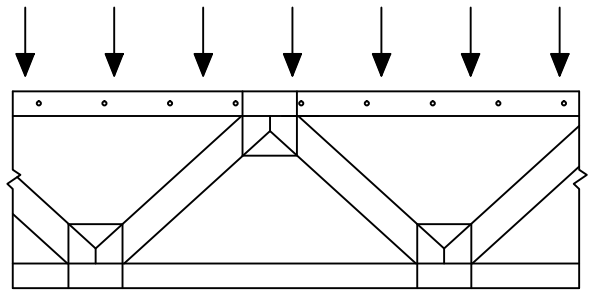
If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

Refer to Alpine sealed drawing for individual truss design.



Max. Uniform Load per Chart Below



For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200



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For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	REF	SY42 Connection
TC DL	PSF	DATE	01/19/2018
BC DL	PSF	DRWG	CNSY42PL0118
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

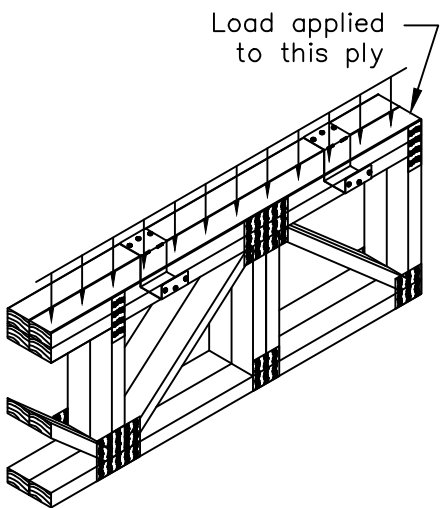
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

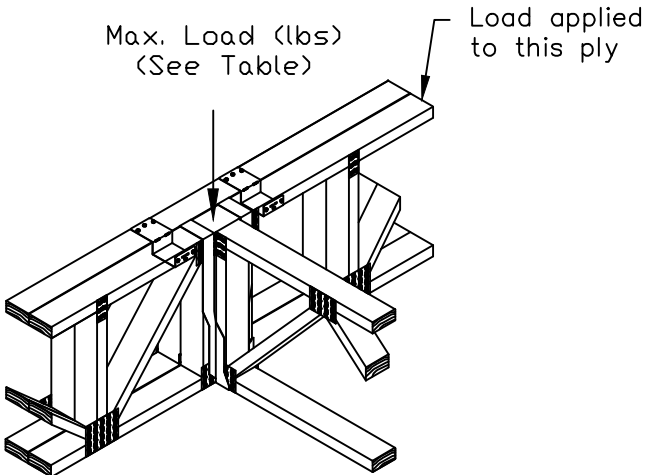
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application

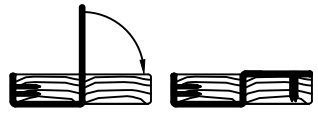


Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

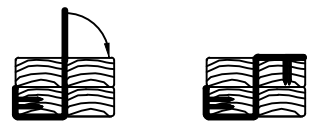
Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.
2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

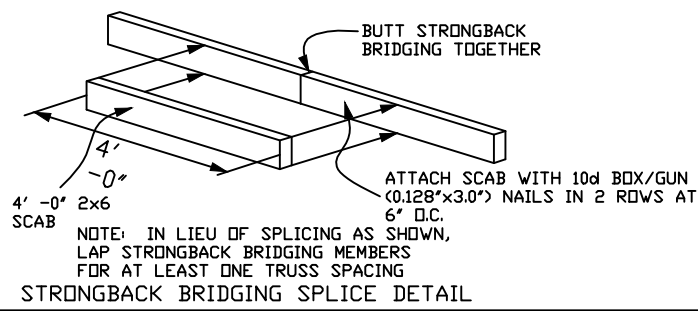


*****WARNING*** READ AND FOLLOW ALL NOTES ON THIS DRAWING**
*****IMPORTANT*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.
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For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

DUR. FAC. ALL

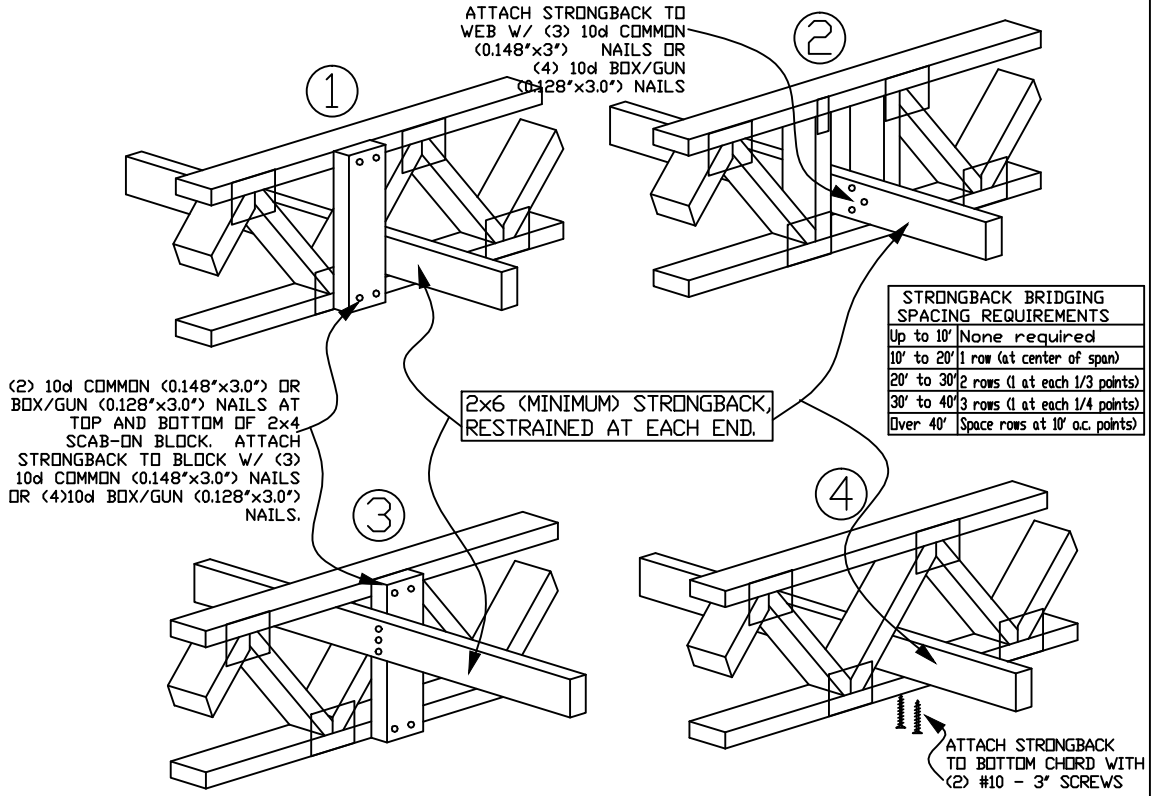
REF SY42 Connection
DATE 10/01/14
DRWG LSCSYX2A1014

STRONGBACK BRIDGING RECOMMENDATIONS



- ▶ All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- ▶ All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- ▶ The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- ▶ The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

NOTE: Details 1 and 2 are the preferred attachment methods



The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES



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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

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For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com TPI: www.tpinst.org SBCA: www.sbcacomponents.com ICC: www.iccsafe.org

TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/19/2022

REVIEWED ☒ DATE RECEIVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



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St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/30/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220694
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00
	JRef #: 1Xf093160002
Wind Standard: ASCE 7-16	Wind Speed (mph): 109
Building Type: Closed	Design Loading (psf): 65.00

This package contains general notes pages, 83 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	139.22.0903.10776	J02	2	139.22.0903.18691	J02G
3	139.22.0903.11094	T01	4	139.22.0903.12913	T02
5	139.22.0903.13852	T03	6	139.22.0903.19081	T04
7	139.22.0903.09769	T05	8	139.22.0903.12330	T06
9	139.22.0903.16381	T07	10	139.22.0903.14246	T08
11	139.22.0903.15383	T10	12	139.22.0903.14182	T11
13	139.22.0903.12671	T12	14	139.22.0903.15726	T13
15	139.22.0903.18518	T14	16	139.22.0903.11893	T15
17	139.22.0943.48133	T17	18	139.22.0943.59403	T18
19	139.22.0903.17645	T19	20	139.22.0903.11895	T20
21	139.22.0903.10266	T21	22	139.22.0944.11557	T22
23	139.22.0903.15307	T23	24	139.22.0903.15491	T24
25	139.22.0903.18027	T25	26	139.22.0903.14249	T26
27	139.22.0903.15911	T27	28	139.22.0903.13178	T28
29	139.22.0903.10487	T29	30	139.22.0903.16939	T30
31	139.22.0903.17947	T31	32	139.22.0903.10402	T33
33	139.22.0903.09789	T34	34	139.22.0903.14883	T35
35	139.22.0903.13275	T36	36	139.22.0903.12771	T37
37	139.22.0903.10759	T38	38	139.22.0903.10865	T39
39	139.22.0903.14818	T40	40	139.22.0903.13832	T41
41	139.22.0903.10892	T42	42	139.22.0903.10622	T43
43	139.22.0903.15061	T44	44	139.22.0903.10155	T45
45	139.22.0903.09710	T46	46	139.22.0903.09876	T47
47	139.22.0903.13862	T48	48	139.22.0903.10885	T49
49	139.22.0903.10440	T50	50	139.22.0903.12777	T51



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155 Harlem Ave.
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Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/19/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	Job Number: JB-220694
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	139.22.0903.10288	T52
53	139.22.0903.17303	TGE02
55	139.22.0903.18899	TGE04
57	139.22.0903.10479	TGE06
59	139.22.0903.19250	TGE08
61	139.22.0903.15651	TGE10
63	139.22.0903.10525	TGE12
65	139.22.0903.10758	TGE14
67	139.22.0903.09804	TGE16
69	139.22.0903.10978	TGE18
71	139.22.0903.09728	TGE20
73	139.22.0903.17050	TGE22
75	139.22.0903.14181	T32
77	139.22.0903.10243	J02A
79	139.22.0903.19716	T48A
81	139.22.0944.24893	T55
83	139.22.0903.19297	T53
85	BRCLBSUB0119	
87	GABRST160118	

Item	Drawing Number	Truss
52	139.22.0903.18039	TGE01
54	139.22.0903.18840	TGE03
56	139.22.0903.10698	TGE05
58	139.22.0903.09687	TGE07
60	139.22.0903.17397	TGE09
62	139.22.0903.12985	TGE11
64	139.22.0903.09852	TGE13
66	139.22.0903.13912	TGE15
68	139.22.0903.12144	TGE17
70	139.22.0903.10618	TGE19
72	139.22.0903.10921	TGE21
74	139.22.0903.15108	TGE23
76	139.22.0903.19917	T09
78	139.22.0943.38500	T16
80	139.22.0944.15207	T54
82	139.22.0903.19335	T09A
84	A11530ENC160118	
86	DEFLCAMB1014	
88	GBLLETIN0118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)**Key to Terms:**

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

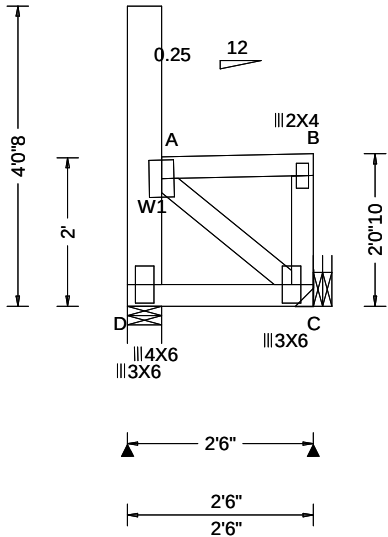
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

SEQN: 36700 / FROM:	MONO Ply: 1 Qty: 68	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02	Cust: R 9316 JRef:1XIO93160002 T193 DrwNo: 139.22.0903.10776 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	147	/-	/-	/114	/79	/90
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	173	/-	/-	/157	/63	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	D Brg Wid = 5.5		Min Req = 1.5 (Truss)				
NCBCLL: 0.00	Mean Height: 21.03 ft		Creep Factor: 2.0	C Brg Wid = -		Min Req = -				
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.103	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf		Max BC CSI: 0.079	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.131	Maximum Web Forces Per Ply (lbs)						
	C&C Dist a: 3.00 ft			Webs	Tens.Comp.					
	Loc. from endwall: Any			A - C	238	-387				
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

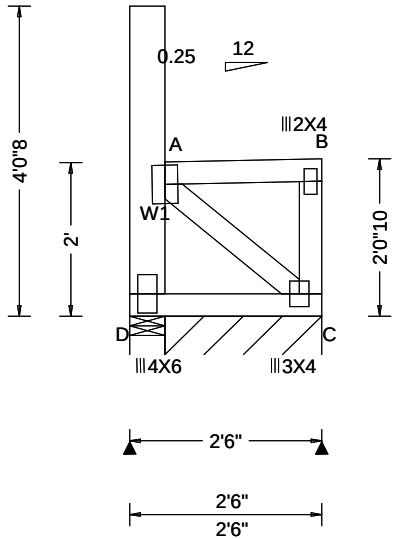
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 36702 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02G	Cust: R 9316 JRef:1XIO93160002 T133 DrwNo: 139.22.0903.18691 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	D	147	/-	/-	/122	/85	/98
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	C*	85	/-	/-	/78	/33	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	Wind reactions based on MWFRS						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	C Brg Wid = 24.5 Min Req = -						
NCBCLL: 0.00	Mean Height: 21.03 ft	Building Code:	Creep Factor: 2.0	Bearings D & D are a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.103	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.079							
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.105							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: not in 14.50 ft	Plate Type(s):								
	GCpi: 0.18	WAVE								
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes
All plates are 3X6 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

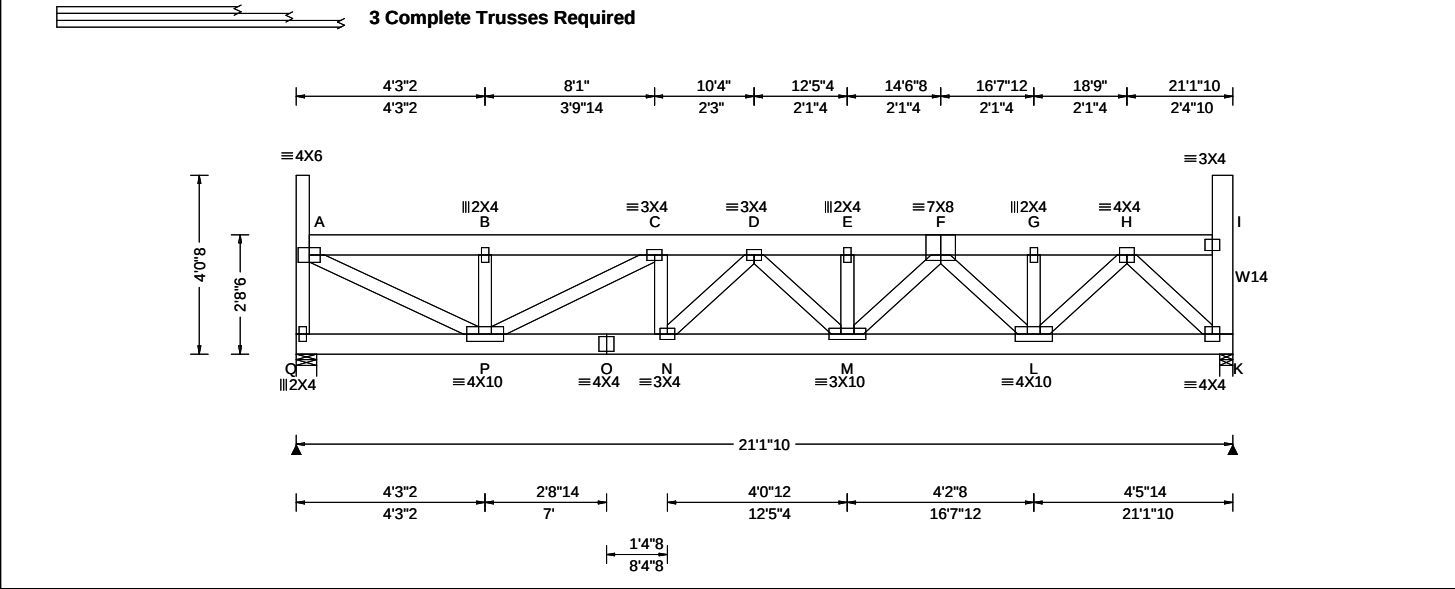
Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 36782 / FROM:	FLAT Ply: 3 Qty: 8	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T01	Cust: R 9316 JRef:1XIO93160002 T10 / DrwNo: 139.22.0903.11094 / NDW 05/19/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)					
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#		Gravity			Non-Gravity		
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL): 0.060 D 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
BCCL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL): 0.111 D 999 240		Q	1981	-/-	-/-	-/-	/117 -/-
BCDL:	15.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL): 0.014 K - -		K	2325	-/-	-/-	-/-	/149 -/-
Des Ld:	65.00	EXP:	B Kzt: NA			HORZ(TL): 0.026 K - -		Wind reactions based on MWFRS					
NCBCLL:	0.00	Mean Height:	21.70 ft			Creep Factor: 2.0		Q Brg Wid = 5.5 Min Req = 1.5 (Truss)					
Soffit:	2.00	TCDL:	5.0 psf			Max TC CSI: 0.054		K Brg Wid = 3.5 Min Req = 1.5 (Truss)					
Load Duration:	1.15	BCDL:	3.0 psf			Max BC CSI: 0.283		Bearings Q & K are a rigid surface.					
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2			Max Web CSI: 0.291		Members not listed have forces less than 375#					
		C&C Dist a:	3.00 ft					Maximum Top Chord Forces Per Ply (lbs)					
		Loc. from endwall:	not in 14.50 ft					Chords Tens.Comp. Chords Tens. Comp.					
		GCpi:	0.18										
		Wind Duration:	1.60										
				WAVE		VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 60 plf at 0.00 to 60 plf at 21.14
BC: 1611 lb Conc. Load at 12.90

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 20.39 1.34 13.80 3.32
20.68 0.00 20.39 1.34 13.80 3.32
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.



05/19/2022

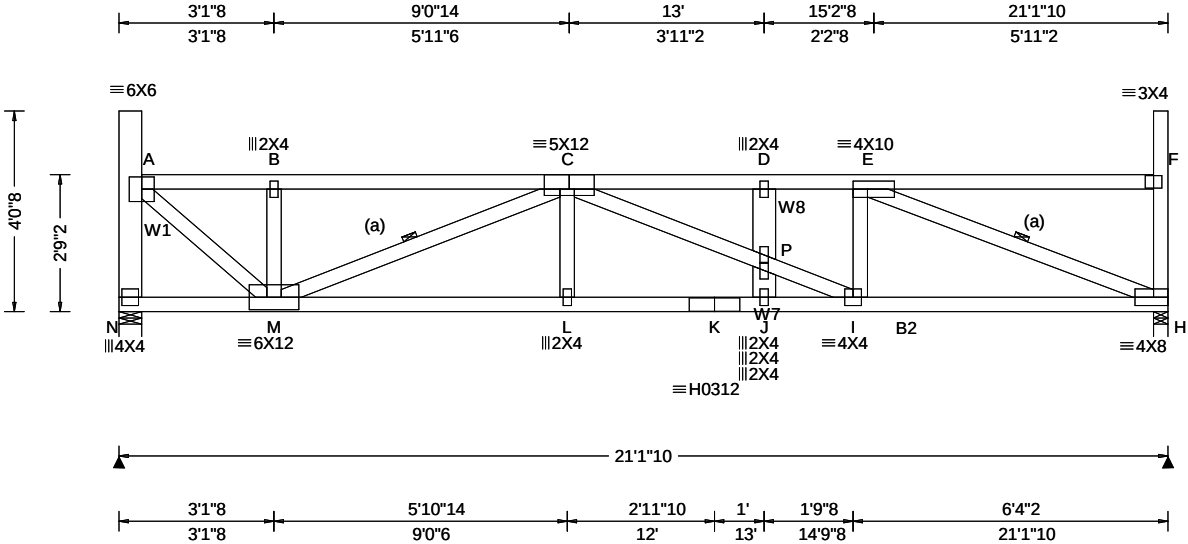
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36704 / FROM:	FLAT Ply: 1 Qty: 5	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T03	Cust: R 9316 JRef:1XIO93160002 T2 / DrwNo: 139.22.0903.13852 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity				
	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.142 D 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.255 D 994 240	N	1342	/-	/-	/639	/73	/119	
	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.040 H - -	H	1353	/-	/-	/644	/75	/-	
Des Ld: 65.00	EXP: B Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	HORZ(TL): 0.075 H - -	Wind reactions based on MWFRS							
NCBCLL: 0.00	Mean Height: 21.76 ft		Creep Factor: 2.0	N Brg Wid = 5.5 Min Req = 2.1 (Truss)							
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.440	H Brg Wid = 3.5 Min Req = 1.7 (Truss)							
Load Duration: 1.15	BCDL: 3.0 psf		Max BC CSI: 0.996	Bearings N & H are a rigid surface.							
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h		Max Web CSI: 0.600	Members not listed have forces less than 375#							
	C&C Dist a: 3.00 ft			Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: Any			Chords		Tens.Comp.		Chords		Tens. Comp.	
	GCpi: 0.18			A - B	134	-1601	C - D	136	-2612		
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17	B - C	134	-1598	D - E	136	-2612		

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.28 11.74 2.83
20.84 0.00 20.39 1.28 11.74 2.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.14" DL: 0.14". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

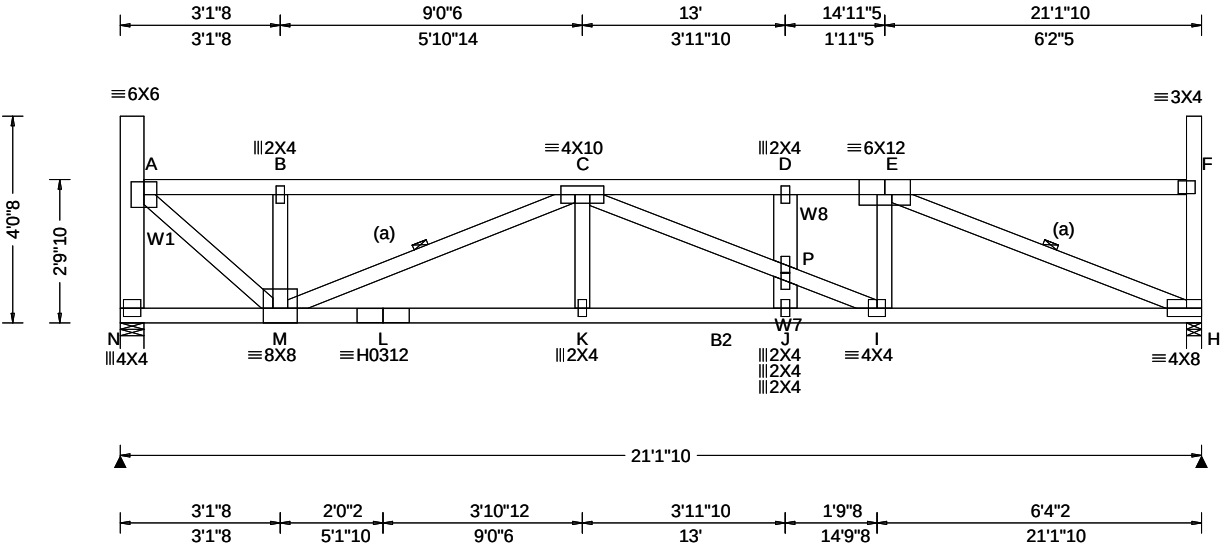
Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 36705 / FROM:	FLAT Ply: 1 Qty: 5	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T04	Cust: R 9316 JRef:1XIO93160002 T3 / DrwNo: 139.22.0903.19081 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.132 D 999 360 VERT(CL): 0.236 D 999 240 HORZ(LL): 0.036 H - - HORZ(TL): 0.067 H - - Creep Factor: 2.0 Max TC CSI: 0.440 Max BC CSI: 0.919 Max Web CSI: 0.592 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1342 - / - / - / 639 / 73 / 118 H 1353 - / - / - / 644 / 75 / - Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 2.1 (Truss) H Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 132 -1571 C - D 159 -2565 B - C 132 -1567 D - E 159 -2565

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.24 10.35 2.50
20.84 0.00 20.39 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

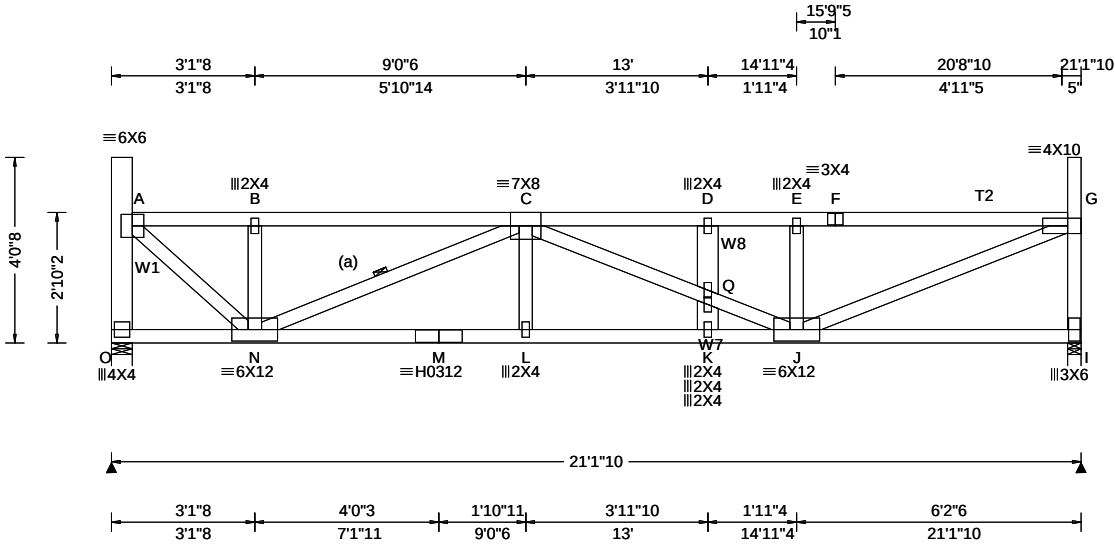
Additional Notes
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05/19/2022

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SEQN: 36775 / FROM:	FLAT Ply: 1 Qty: 5	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T05	Cust: R 9316 JRef:1XIO93160002 T4 / DrwNo: 139.22.0903.09769 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.84 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.153 D 999 360 VERT(CL): 0.283 D 895 240 HORZ(LL): 0.034 A - - HORZ(TL): 0.063 A - - Creep Factor: 2.0 Max TC CSI: 0.626 Max BC CSI: 0.730 Max Web CSI: 0.771 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL O 1435 -/- /- /- /115 -/ I 1602 -/- /- /- /238 -/ Non-Gravity Wind reactions based on MWFRS O Brg Wid = 5.5 Min Req = 1.8 (Truss) I Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings O & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 137 -1659 D - E 430 -3020 B - C 137 -1656 E - F 430 -3017 C - D 430 -3020 F - G 430 -3025

Lumber
Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 20.84
BC: From 60 plf at 0.00 to 60 plf at 13.29
BC: From 30 plf at 13.29 to 30 plf at 21.14
BC: 144 lb Conc. Load at 13.29,15.07,17.07,19.07

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.20 8.97 2.16
20.84 0.00 20.39 1.20 8.97 2.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
N - M 3240 -327 L - K 3240 -327
M - L 3240 -327 K - J 3240 -327

Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.
O - A 114 -1381 Q - J 0 -448
A - N 2014 -167 J - G 3143 -446
N - C 207 -1726 G - I 187 -1404
C - Q 0 -432



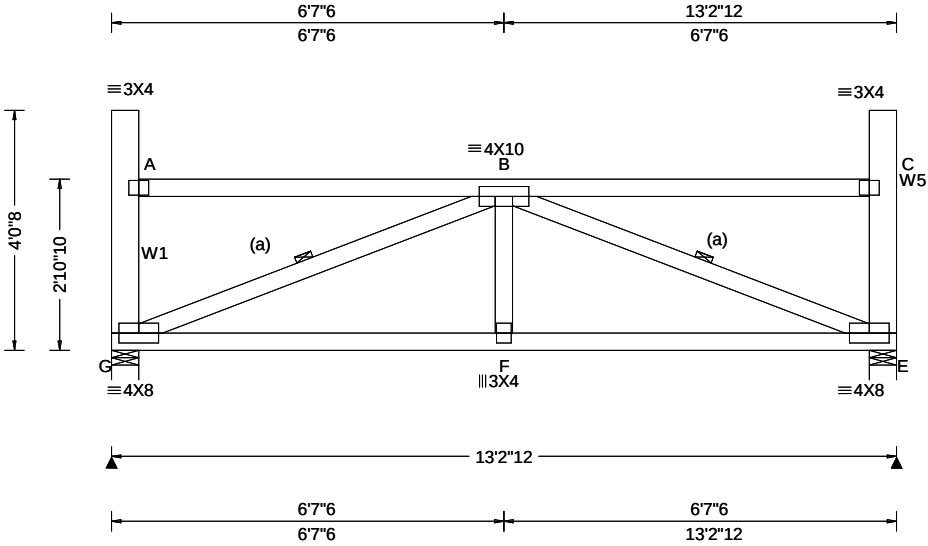
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Building 10

SEQN: 36706 / FROM:	SPEC Ply: 1 Qty: 5	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T06	Cust: R 9316 JRef:1XIO93160002 T5 / DrwNo: 139.22.0903.12330 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.89 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.043 F 999 360 VERT(CL): 0.080 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.028 E - - Creep Factor: 2.0 Max TC CSI: 0.546 Max BC CSI: 0.744 Max Web CSI: 0.315 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 828 -/- /- /407 /56 /115 E 828 -/- /- /407 /56 -/ Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1311 -165 F - E 1311 -165

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.59 1.83
12.77 0.00 20.00 1.16 7.59 1.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

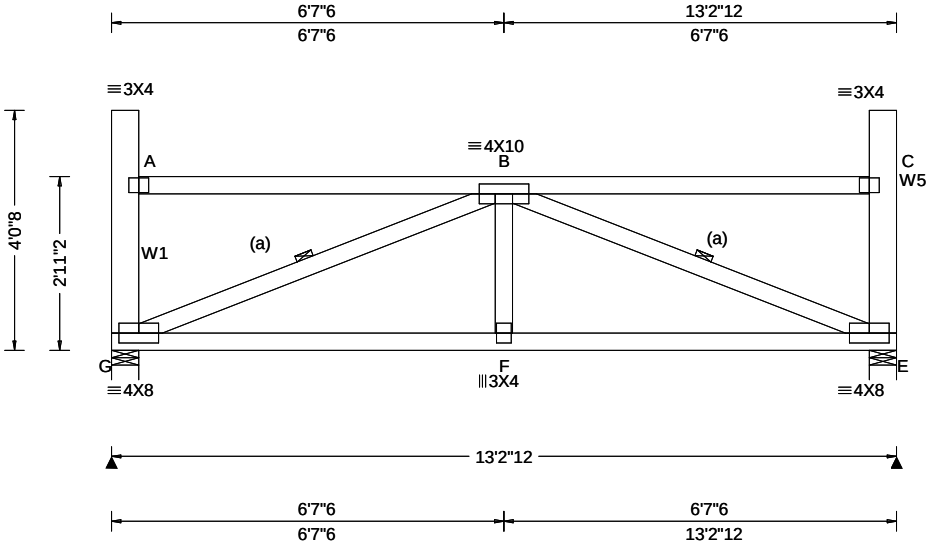


05/19/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36707 / FROM:	FLAT Ply: 1 Qty: 5	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T07	Cust: R 9316 JRef:1XIO93160002 T6 / DrwNo: 139.22.0903.16381 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.93 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.042 F 999 360 VERT(CL): 0.078 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.028 E - - Creep Factor: 2.0 Max TC CSI: 0.547 Max BC CSI: 0.741 Max Web CSI: 0.312 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 828 /- /- /407 /56 /114 E 828 /- /- /407 /56 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1291 -163 F - E 1291 -163

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.11 6.20 1.50
12.77 0.00 20.00 1.11 6.20 1.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

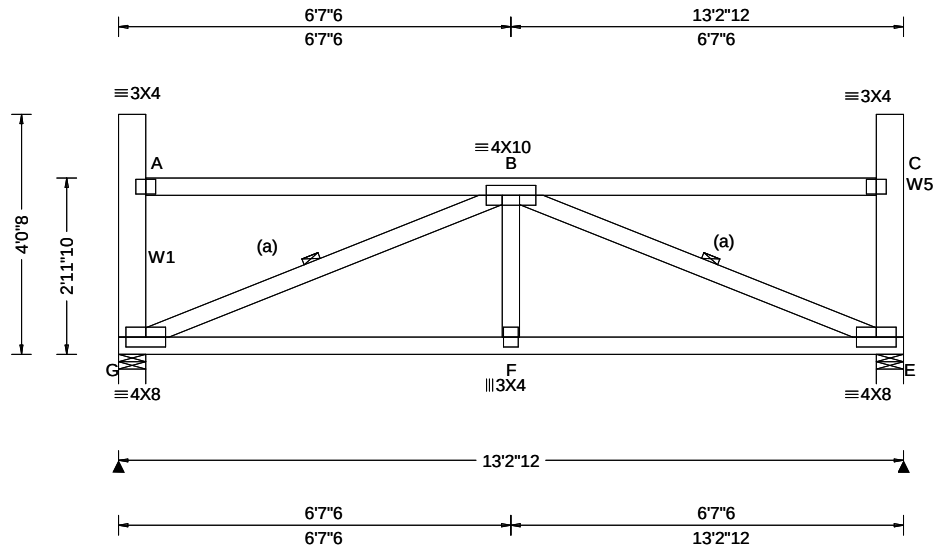
Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022
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SEQN: 36708 /	FLAT	Ply: 1	Job Number: JB-220694	Cust: R 9316 JRef: 1XIO93160002 T7 /
FROM:		Qty: 4	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.0903.14246
			Truss Label: T08	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.041 F 999 360	Loc R+ /R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.076 F 999 240	G 828 /- /- /407 /56 /113
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.015 E - -	E 828 /- /- /407 /56 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.027 E - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.97 ft	Building Code:	Creep Factor: 2.0	G Brg Wid = 5.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.548	E Brg Wid = 5.5 Min Req = 1.5 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.738	Bearings G & E are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.309	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Bot Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	G - F 1271 -161 F - E 1271 -161

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



05/19/2022

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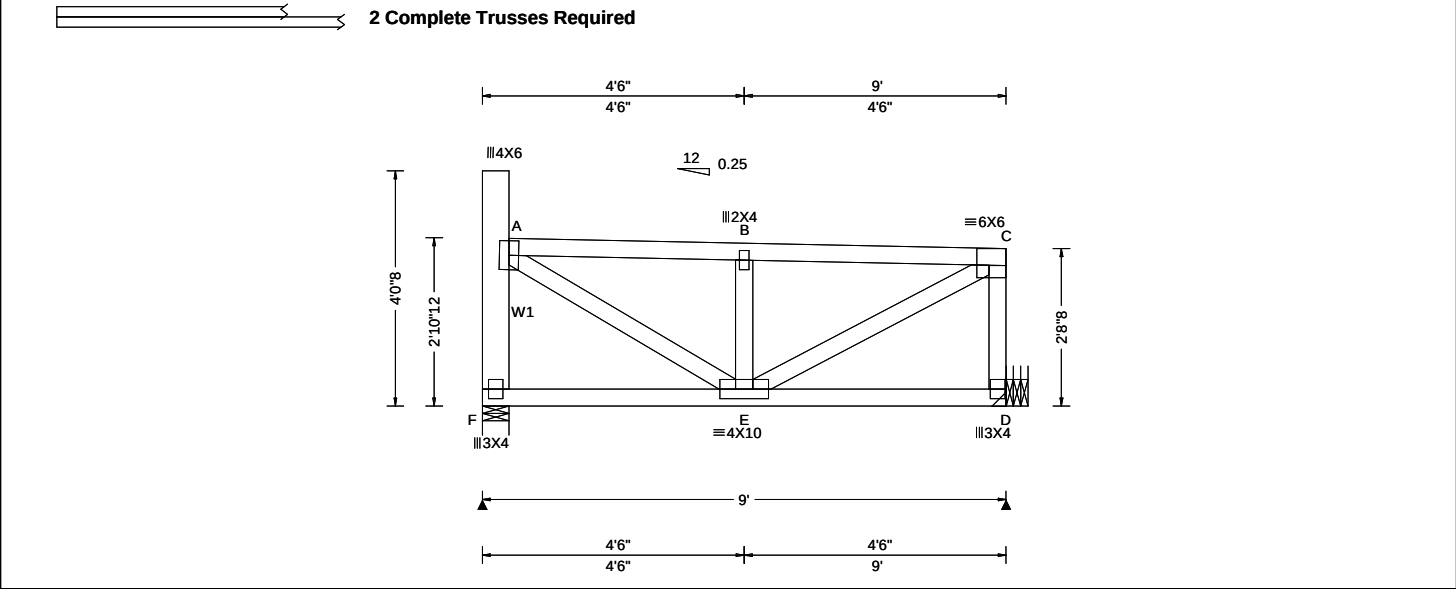
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36781 / FROM:	MONO Qty: 8	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T10	Cust: R 9316 JRef:1XIO93160002 T9 / DrwNo: 139.22.0903.15383 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	F	1371	/-	/-	/-	/177	/-
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.015 B 999 360	D	1611	/-	/-	/-	/149	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.028 B 999 240	Wind reactions based on MWFRS						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.004 A - -	F	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.007 A - -	D	Brg Wid = - Min Req = -					
NCBCLL: 0.00	Mean Height: 21.80 ft	Building Code:	Creep Factor: 2.0	Bearing F is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.116	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.730	Maximum Top Chord Forces Per Ply (lbs)						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.231	Chords	Tens.Comp.	Chords	Tens. Comp.			
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	VIEW Ver: 21.02.00.1005.17	A - B	96	-857	B - C	96	-858	
	Loc. from endwall: not in 29.00 ft	Plate Type(s):								
	GCpi: 0.18	WAVE								
	Wind Duration: 1.60									

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 60 plf at 0.00 to 60 plf at 2.33
BC: From 30 plf at 2.33 to 30 plf at 9.00
BC: 762 lb Conc. Load at 2.33
BC: 527 lb Conc. Load at 4.33, 6.33, 8.33

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
F - A	51 -487	E - C	940 -107
A - E	900 -96	C - D	56 -506

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.84
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

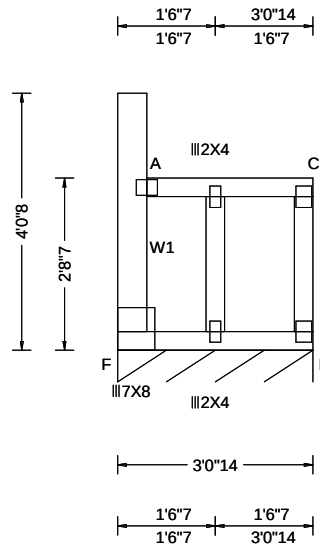
Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.



05/19/2022

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SEQN: 36709 /	GABL	Ply: 1	Job Number: JB-220694	Cust: R 9316 JRef:1XIO93160002 T108
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.0903.14182
			Truss Label: T11	/ NDW 05/19/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or * = PLF						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in	loc L/def L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL):	0.007 A 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL):	0.009 A 999 240	D*	120	/-	/-	/56	/4	/30
BCDL:	15.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL):	0.116 A - -	Wind reactions based on MWFRS						
Des Ld:	65.00	EXP:	B Kzt: NA			HORZ(TL):	0.135 A - -	D Brg Wid = 36.9 Min Req = -						
NCBCLL:	0.00	Mean Height:	21.70 ft	Building Code:		Creep Factor: 2.0		Bearing F is a rigid surface.						
Soffit:	2.00	TCDL:	5.0 psf	IBC 2018		Max TC CSI: 0.116		Members not listed have forces less than 375#						
Load Duration:	1.15	BCDL:	3.0 psf	TPI Std: 2014		Max BC CSI: 0.324								
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2	Rep Fac: Yes		Max Web CSI: 0.141								
		C&C Dist a:	3.00 ft	FT/RT: 20(0)/10(0)										
		Loc. from endwall:	Any	Plate Type(s):										
		GCp:	0.18											
		Wind Duration:	1.60	WAVE		VIEW Ver: 21.02.00.1005.17								

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Fasten rated sheathing to one face of this frame.

All plates are 3X4 except as noted.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.34	13.63

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

See DWGS A11530ENC160118, GBLLTIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.



05/19/2022

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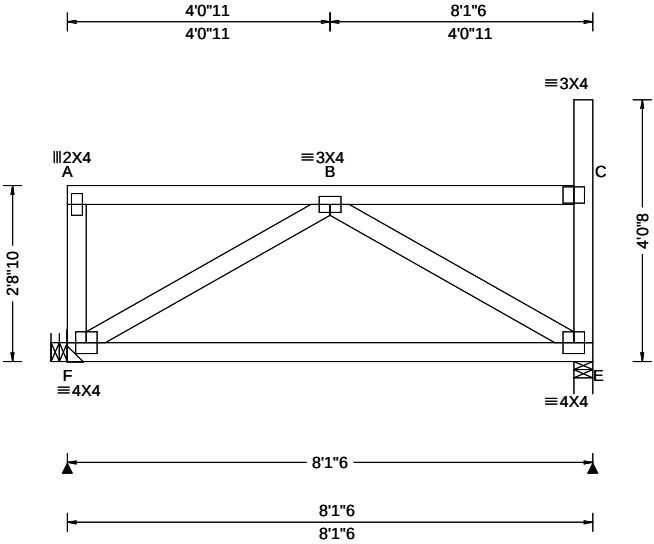
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SEQN: 36710 / FROM:	FLAT Ply: 1 Qty: 8	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T12	Cust: R 9316 JRef:1XIO93160002 T210 DrwNo: 139.22.0903.12671 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	F	527	/-	/-	/270	/43	/92
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	E	507	/-	/-	/255	/45	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	F Brg Wid = - Min Req = -						
NCBCLL: 0.00	Mean Height: 21.72 ft	Building Code:	Creep Factor: 2.0	E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.217	Bearing E is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.611	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.204							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.32 13.12 3.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

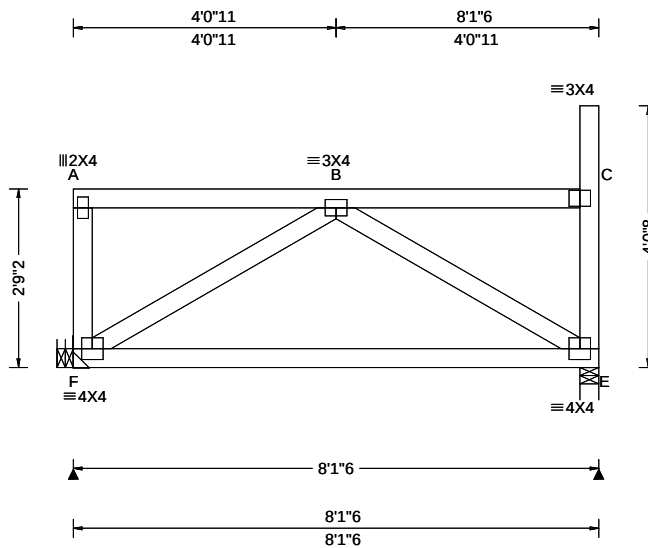


05/19/2022

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SEQN: 36711 /	FLAT	Ply: 1	Job Number: JB-220694	Cust: R 9316 JRef:1XIO93160002 T126
FROM:		Qty: 8	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.0903.15726
			Truss Label: T13	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity Loc R+ /R- / Rh / Rw / U / RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	F 527 /- /- /270 /44 /91
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	E 507 /- /- /255 /45 /-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	F Brg Wid = - Min Req = -
NCBCLL: 0.00	Mean Height: 21.76 ft	Building Code:	Creep Factor: 2.0	E Brg Wid = 3.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.217	Bearing E is a rigid surface.
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.611	Members not listed have forces less than 375#
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.204	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



05/19/2022

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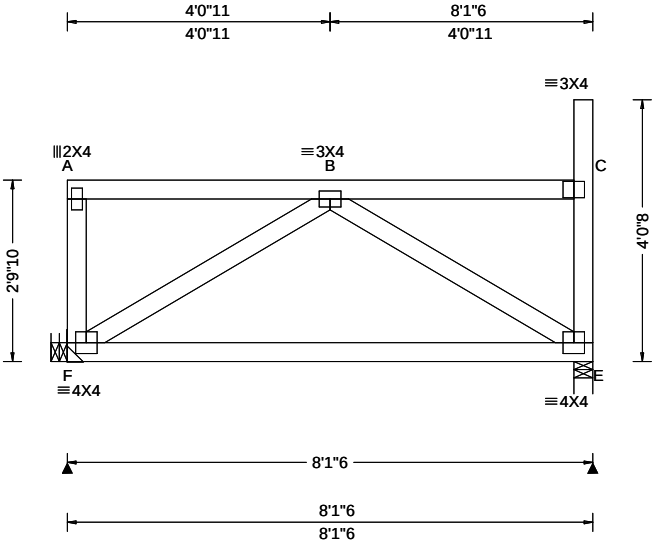
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36712 / FROM:	FLAT Ply: 1 Qty: 8	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T14	Cust: R 9316 JRef:1XIO93160002 T130 DrwNo: 139.22.0903.18518 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	F	527	/-	/-	/270	/44	/91
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.007 B 999 240	E	507	/-	/-	/255	/45	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	F	Brg Wid = -			Min Req = -		
NCBCLL: 0.00	Mean Height: 21.80 ft	Building Code:	Creep Factor: 2.0	E	Brg Wid = 3.5			Min Req = 1.5 (Truss)		
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.218	Bearing E is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.610	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.203							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

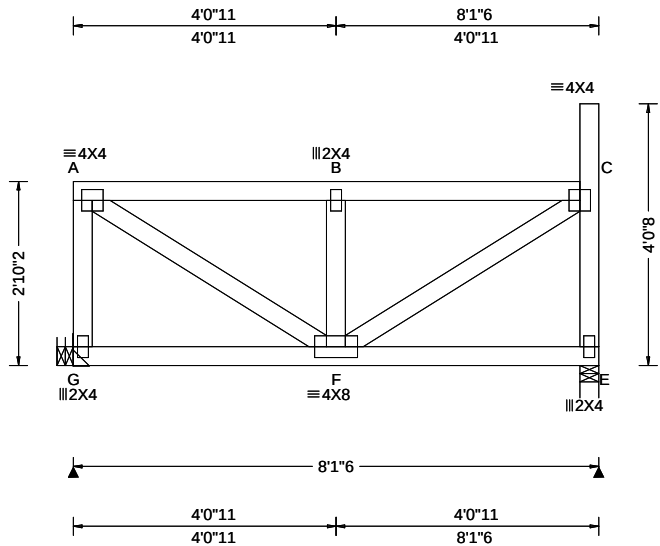


05/19/2022

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SEQN: 36778 / FROM:	FLAT Ply: 1 Qty: 8	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T15	Cust: R 9316 JRef:1XIO93160002 T124 DrwNo: 139.22.0903.11893 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	G	762	/-	/-	/-	/168	/-
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.012 B 999 360	E	607	/-	/-	/-	/111	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.021 B 999 240	Wind reactions based on MWFRS						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): -0.002 C - -	G Brg Wid = - Min Req = -						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.004 C - -	E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
NCBCLL: 0.00	Mean Height: 21.84 ft	Building Code:	Creep Factor: 2.0	Bearing E is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.239	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.340	Maximum Top Chord Forces Per Ply (lbs)						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.190	Chords	Tens.Comp.	Chords	Tens. Comp.			
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		A - B	135	-667	B - C	135	-671	
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 30 plf at 0.00 to 30 plf at 8.11
BC: 144 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.20 8.97 2.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached
spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

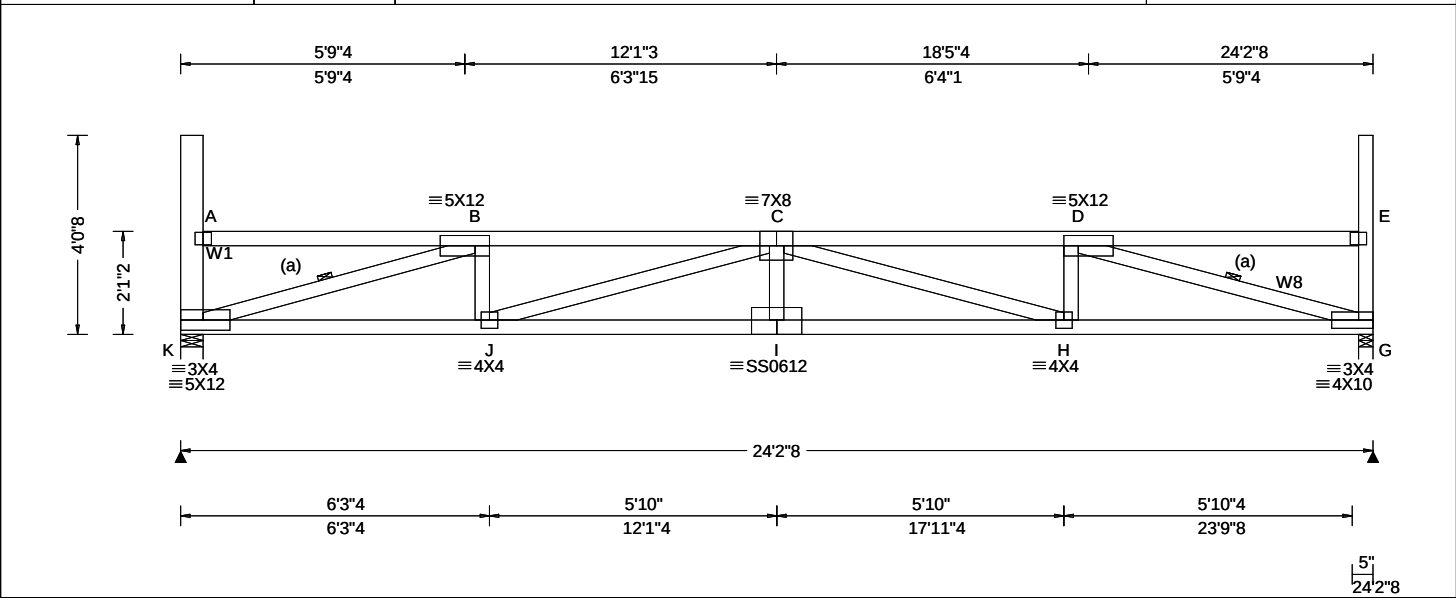
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 36713 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T17	Cust: R 9316 JRef:1XIO93160002 T127 DrwNo: 139.22.0943.48133 / NDW 05/19/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg:	20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL:	15.00	Speed:	109 mph	Pf:	15.4 Ce: 1.0	VERT(LL): 0.378 I 767 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL:	15.00	Enclosure:	Closed	Lu:	- Cs: 1.00	VERT(CL): 0.703 I 413 240		K	1541	/-	/-	/731	/78	/129	
BCDL:	15.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL): 0.078 G - -		G	1553	/-	/-	/737	/80	/-	
Des Ld:	65.00	EXP:	B Kzt: NA			HORZ(TL): 0.146 G - -		Wind reactions based on MWFRS							
NCBCLL:	0.00	Mean Height:	21.09 ft			Creep Factor: 2.0		K Brg Wid = 5.5 Min Req = 2.0 (Truss)							
Soffit:	2.00	TCDL:	5.0 psf			Max TC CSI: 0.760		G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration:	1.15	BCDL:	3.0 psf			Max BC CSI: 0.719		Bearings K & G are a rigid surface.							
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2			Max Web CSI: 0.852		Members not listed have forces less than 375#							
		C&C Dist a:	3.00 ft					Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall:	Any					Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi:	0.18												
		Wind Duration:	1.60												

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.95 33.87 4.20
23.92 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.38" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
K - J	4088 - 365	I - H	5417 - 305
J - I	5417 - 305	H - G	4106 - 206

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
K - B	237 - 4162	C - H	142 - 1242
B - J	759 - 2	H - D	774 - 1
J - C	144 - 1264	D - G	235 - 4232



05/19/2022

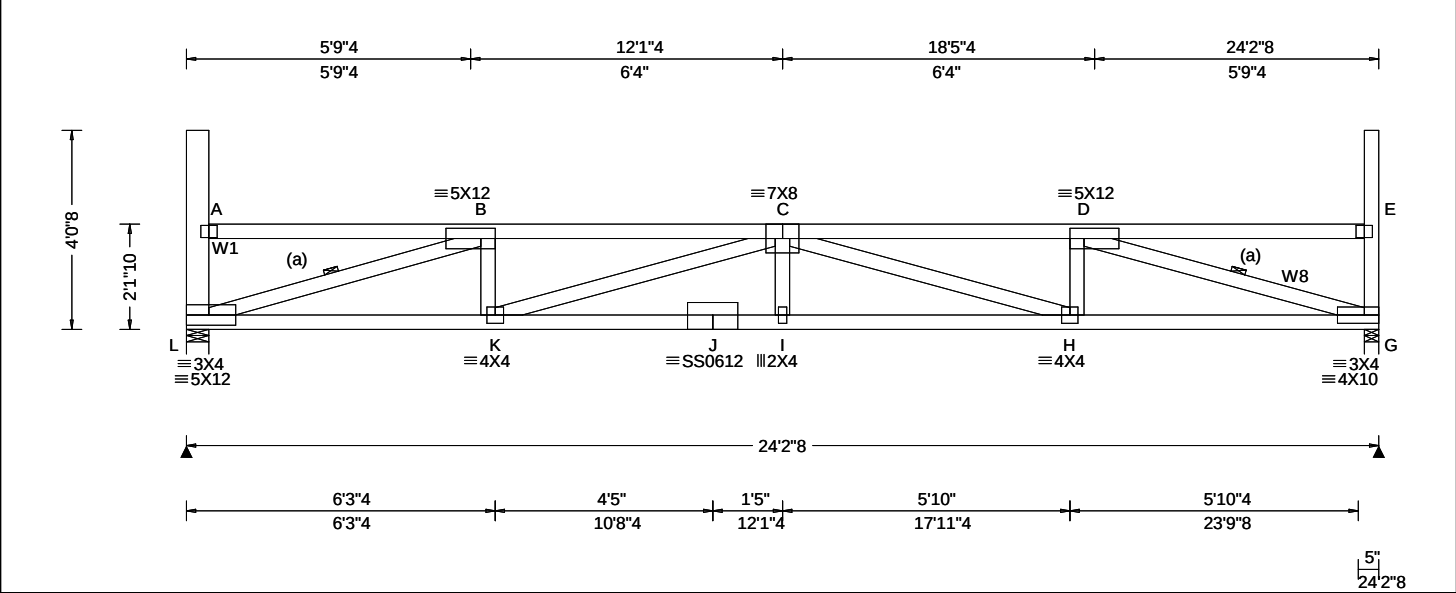
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36796 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T18	Cust: R 9316 JRef:1XIO93160002 T125 DrwNo: 139.22.0943.59403 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity							
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(LL): 0.383 I 758 360	L	1588	/-	/-	/731	/78	/127
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	VERT(CL): 0.694 I 418 240	G	1600	/-	/-	/737	/80	/-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(LL): 0.081 G - -	Wind reactions based on MWFRS							
NCBCLL: 0.00	Mean Height: 21.14 ft	Building Code:	HORZ(TL): 0.147 G - -	L Brg Wid = 5.5 Min Req = 2.0 (Truss)							
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Creep Factor: 2.0	G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max TC CSI: 0.775	Bearings L & G are a rigid surface.							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max BC CSI: 0.720	Members not listed have forces less than 375#							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Max Web CSI: 0.866	Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: Any	Plate Type(s):		Chords		Tens.Comp.		Chords		Tens. Comp.	
	GCpi: 0.18			B - C		229 - 4242		C - D		221 - 4262	
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17								

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; W8 2x4 SPF 2100f-1.8E;	Maximum Bot Chord Forces Per Ply (lbs)							
	Chords		Tens.Comp.		Chords		Tens. Comp.	
	L - K		4122 - 359		I - H		5463 - 301	
	K - J		5463 - 301		H - G		4140 - 202	
	J - I		5463 - 301					
Bracing								

Bracing (a) Continuous lateral restraint equally spaced on member.				
	Maximum Web Forces Per Ply (lbs)			
Loading Drifting snow load has been considered for only in plane loading as follows: Location: J1-1, J1-2, Height: Rd. W.	Webs	Tens.Comp.	Webs	Tens. Comp.
	L - B	233 - 4207	C - H	138 - 1260
	B - K	771 - 2	H - D	786 - 1
	K - C	140 - 1281	D - G	231 - 4276

Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 23.46 1.91 32.49 4.38 23.92 0.00 23.46 1.91 32.49 4.38 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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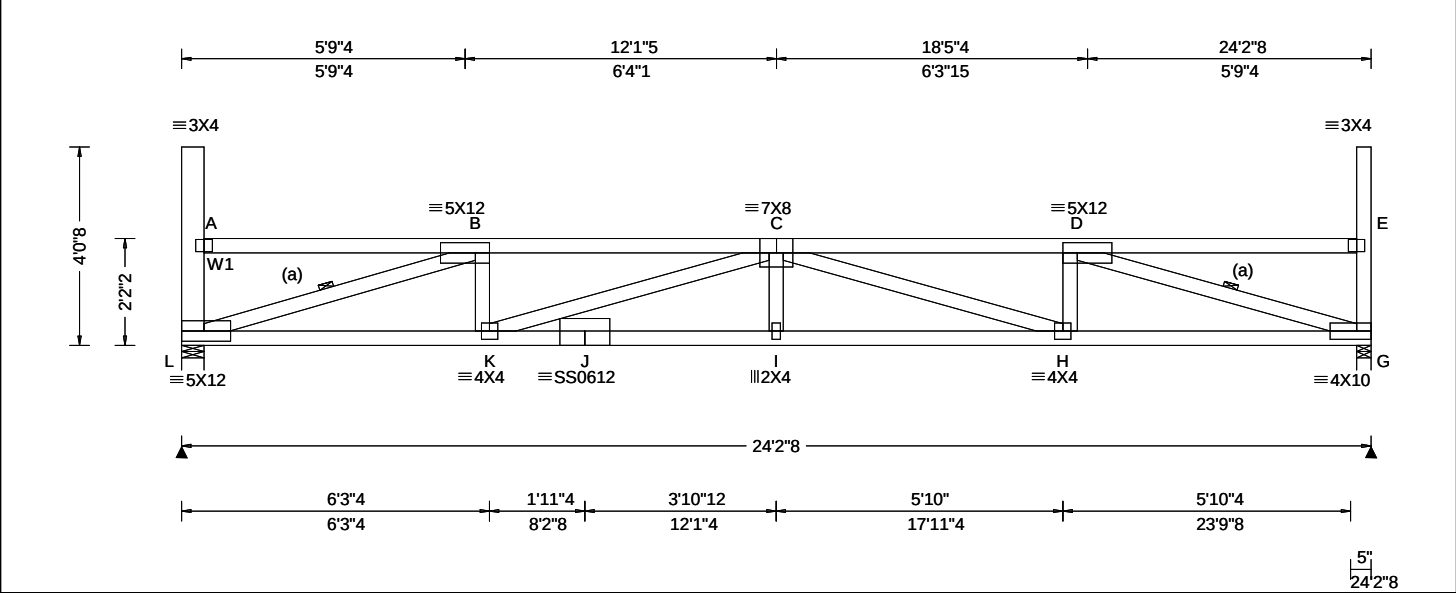
Deflection Max JT VERT DEFL: LL: 0.38" DL: 0.31". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.
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05/19/2022

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SEQN: 36715 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T19	Cust: R 9316 JRef:1XIO93160002 T115 DrwNo: 139.22.0903.17645 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.18 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.356 I 817 360 VERT(CL): 0.661 I 439 240 HORZ(LL): 0.075 G - - HORZ(TL): 0.139 G - - Creep Factor: 2.0 Max TC CSI: 0.703 Max BC CSI: 0.691 Max Web CSI: 0.853 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /78 /126 G 1553 /- /- /737 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 225 - 4029 C - D 216 - 4040

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

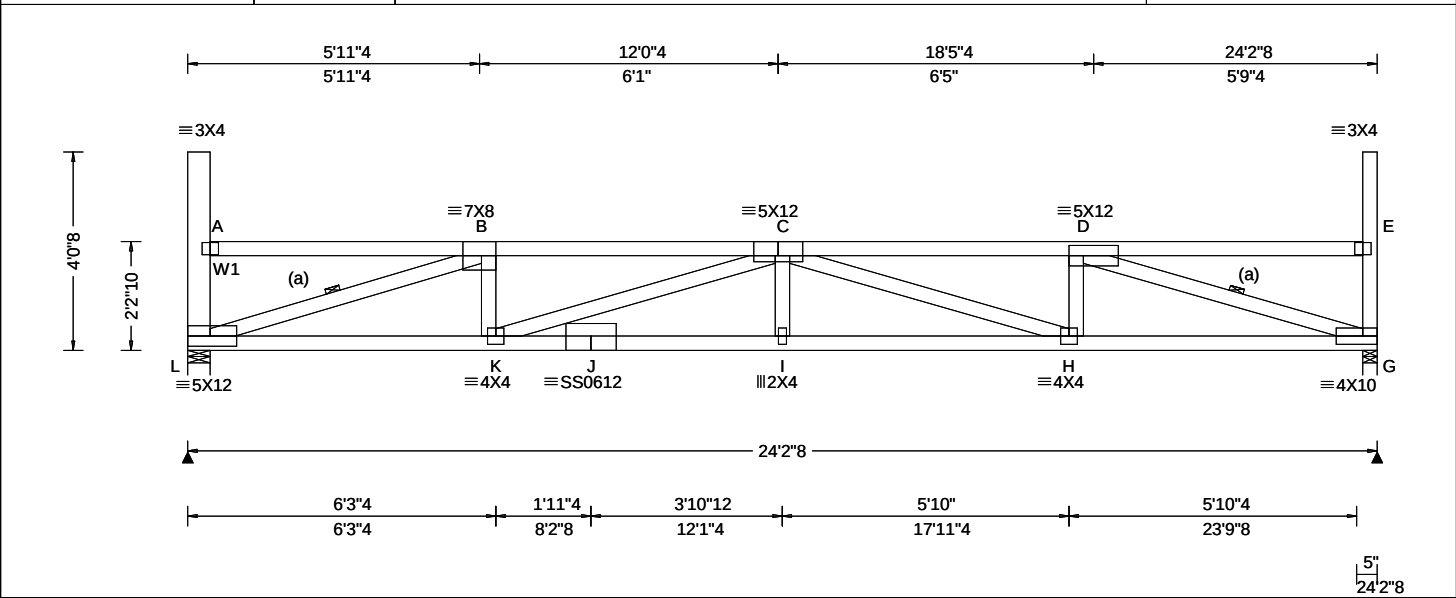


05/19/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 36716 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T20	Cust: R 9316 JRef:1XIO93160002 T116 DrwNo: 139.22.0903.11895 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.341 I 851 360 VERT(CL): 0.634 I 457 240 HORZ(LL): 0.073 G - - HORZ(TL): 0.137 G - - Creep Factor: 2.0 Max TC CSI: 0.680 Max BC CSI: 0.681 Max Web CSI: 0.839 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /78 /124 G 1553 /- /- /737 /80 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 221 -3945 C - D 212 -3955

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Chords Tens.Comp. Chords Tens. Comp. L - K 3831 -347 I - H 5076 -292 K - J 5076 -292 H - G 3840 -194 J - I 5076 -292

Bracing	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Webs Tens.Comp. Webs Tens. Comp. L - B 224 -3927 C - H 132 -1180 B - K 760 -1 H - D 774 -1 K - C 133 -1191 D - G 222 -3980

Loading
Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 23.46 1.82 29.72 4.79 23.92 0.00 23.46 1.82 29.72 4.79 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.

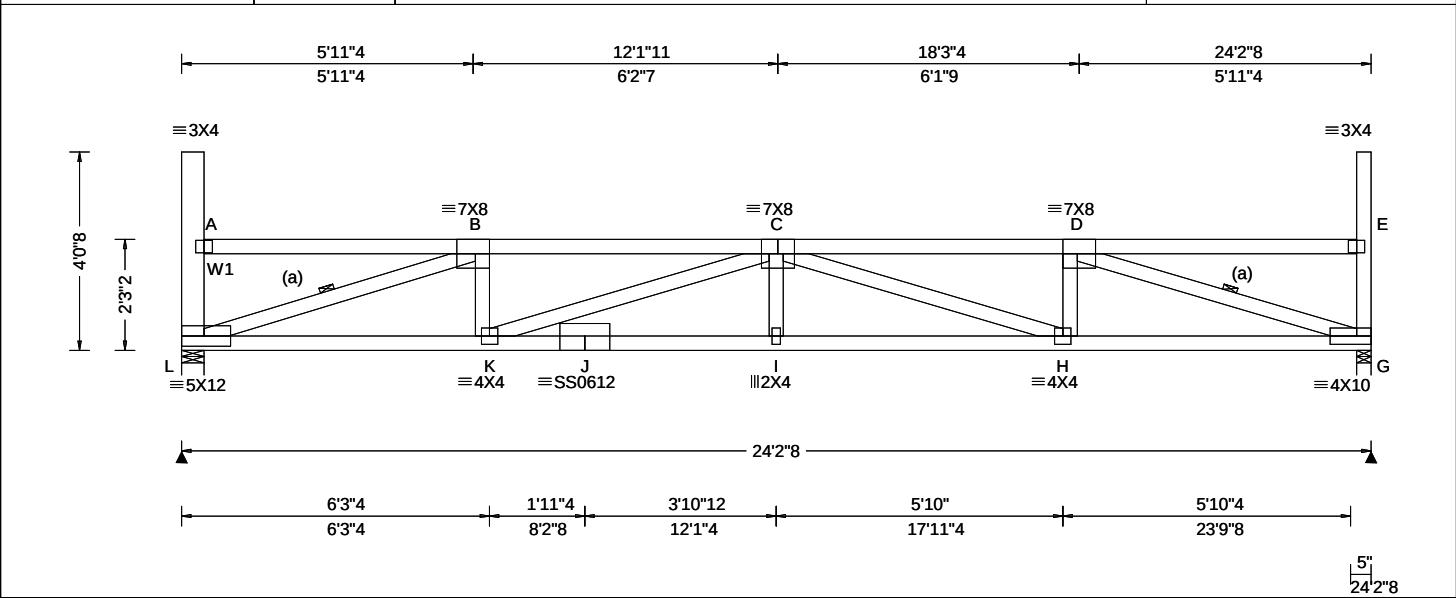
Deflection
Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 36717 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T21	Cust: R 9316 JRef:1XIO93160002 T117 DrwNo: 139.22.0903.10266 / NDW 05/19/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCCL:	20.00	Wind Std:	ASCE 7-16	Pg:	20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#		Gravity			Non-Gravity				
TCDL:	15.00	Speed:	109 mph	Pf:	15.4 Ce: 1.0	VERT(LL): 0.327 I 887 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCCL:	15.00	Enclosure:	Closed	Lu:	- Cs: 1.00	VERT(CL): 0.608 I 477 240		L	1540	/-	/-	/730	/78	/123	
BCDL:	15.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL): 0.072 G - -		G	1552	/-	/-	/737	/80	/-	
Des Ld:	65.00	EXP:	B Kzt: NA			HORZ(TL): 0.134 G - -		Wind reactions based on MWFRS							
NCBCLL:	0.00	Mean Height:	21.26 ft			Creep Factor: 2.0		L Brg Wid = 5.5 Min Req = 2.0 (Truss)							
Soffit:	2.00	TCDL:	5.0 psf			Max TC CSI: 0.656		G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration:	1.15	BCDL:	3.0 psf			Max BC CSI: 0.671		Bearings L & G are a rigid surface.							
Spacing:	24.0 "	MWFRS Parallel Dist:	h/2 to h			Max Web CSI: 0.824		Members not listed have forces less than 375#							
		C&C Dist a:	3.00 ft					Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall:	Any					Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi:	0.18												
		Wind Duration:	1.60												

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Maximum Bot Chord Forces Per Ply (lbs) <table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>L - K</td><td>3748 -340</td><td>I - H</td><td>4963 -286</td></tr><tr><td>K - J</td><td>4963 -286</td><td>H - G</td><td>3757 -182</td></tr><tr><td>J - I</td><td>4963 -286</td><td></td><td></td></tr></table>	Chords	Tens.Comp.	Chords	Tens. Comp.	L - K	3748 -340	I - H	4963 -286	K - J	4963 -286	H - G	3757 -182	J - I	4963 -286		
Chords	Tens.Comp.	Chords	Tens. Comp.														
L - K	3748 -340	I - H	4963 -286														
K - J	4963 -286	H - G	3757 -182														
J - I	4963 -286																
Bracing																	

(a) Continuous lateral restraint equally spaced on member.						Maximum Web Forces Per Ply (lbs)				
Loading						Webs	Tens.Comp.	Webs	Tens.	Comp.
Drifting snow load has been considered for only in plane loading as follows:						L - B	219 - 3851	C - H	128	- 1153
Location	Lu1	Lu2	Height	Pd	W	B - K	759 - 1	H - D	773	0
						K - C	129 - 1164	D - G	217	- 3902

0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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Deflection Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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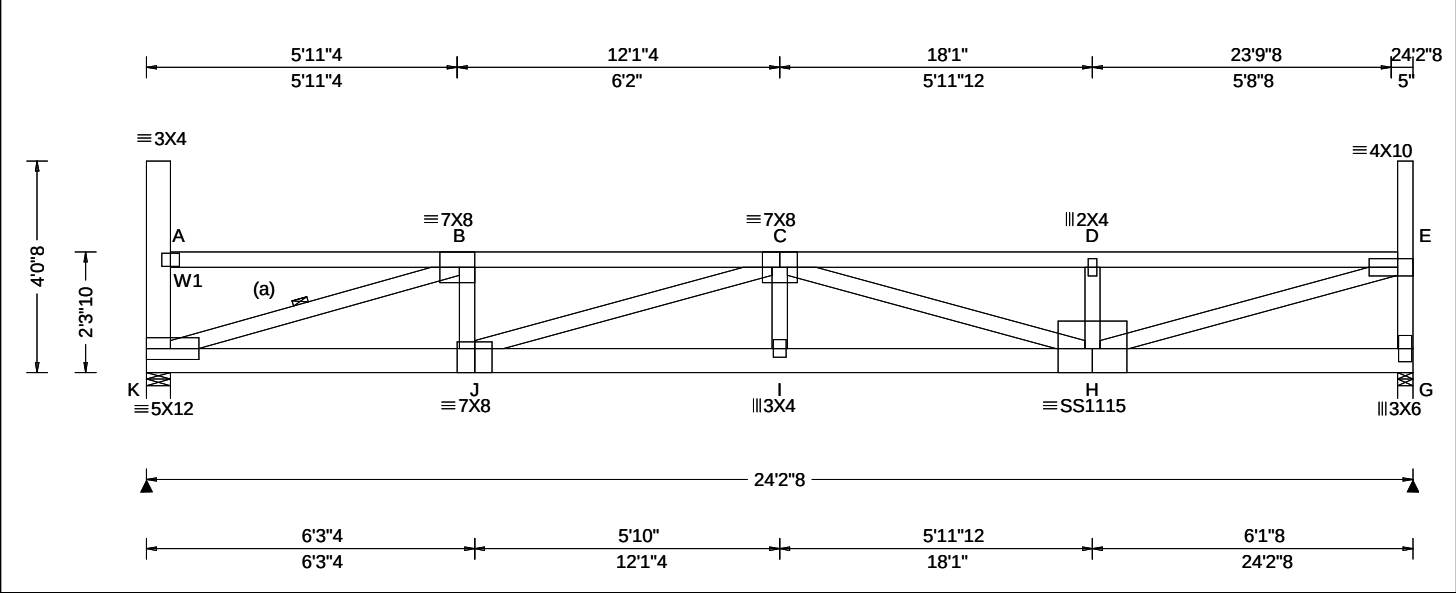
Additional Notes Truss must be installed as shown with top chord up.
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05/19/2022

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Building 10

SEQN: 36718 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T22	Cust: R 9316 JRef:1XIO93160002 T118 DrwNo: 139.22.0944.11557 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.311 I 934 360 VERT(CL): 0.578 I 502 240 HORZ(LL): 0.051 A - - HORZ(TL): 0.096 A - - Creep Factor: 2.0 Max TC CSI: 0.896 Max BC CSI: 0.641 Max Web CSI: 0.960 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1542 /- /- /730 /78 /119 G 1553 /- /- /736 /80 /- Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 201 -3887 D - E 192 -3852 C - D 192 -3847

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.31" DL: 0.27". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

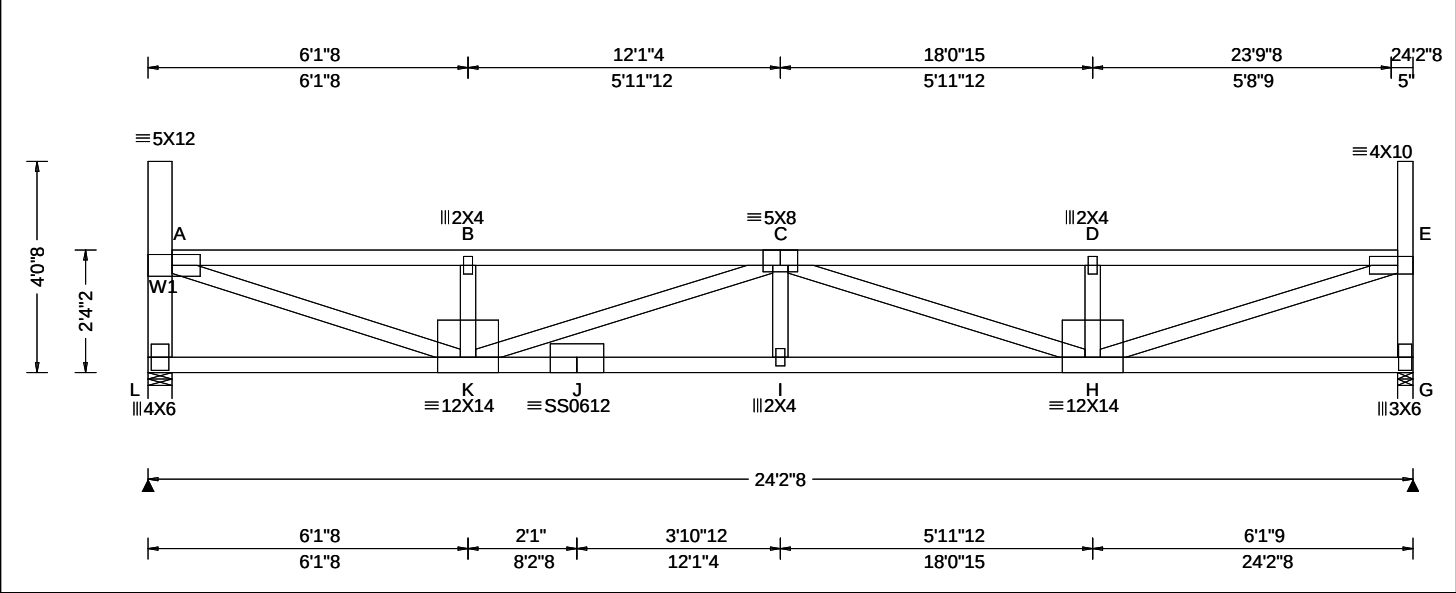


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SEQN: 36719 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T23	Cust: R 9316 JRef:1XIO93160002 T119 DrwNo: 139.22.0903.15307 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.318 I 914 360 VERT(CL): 0.591 I 491 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.100 A - - Creep Factor: 2.0 Max TC CSI: 0.862 Max BC CSI: 0.651 Max Web CSI: 0.924 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /730 /78 /120 G 1553 /- /- /736 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 198 -3686 C - D 184 -3691 B - C 198 -3681 D - E 185 -3696

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.70 25.57 5.57
23.92 0.00 23.46 1.70 25.57 5.57
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

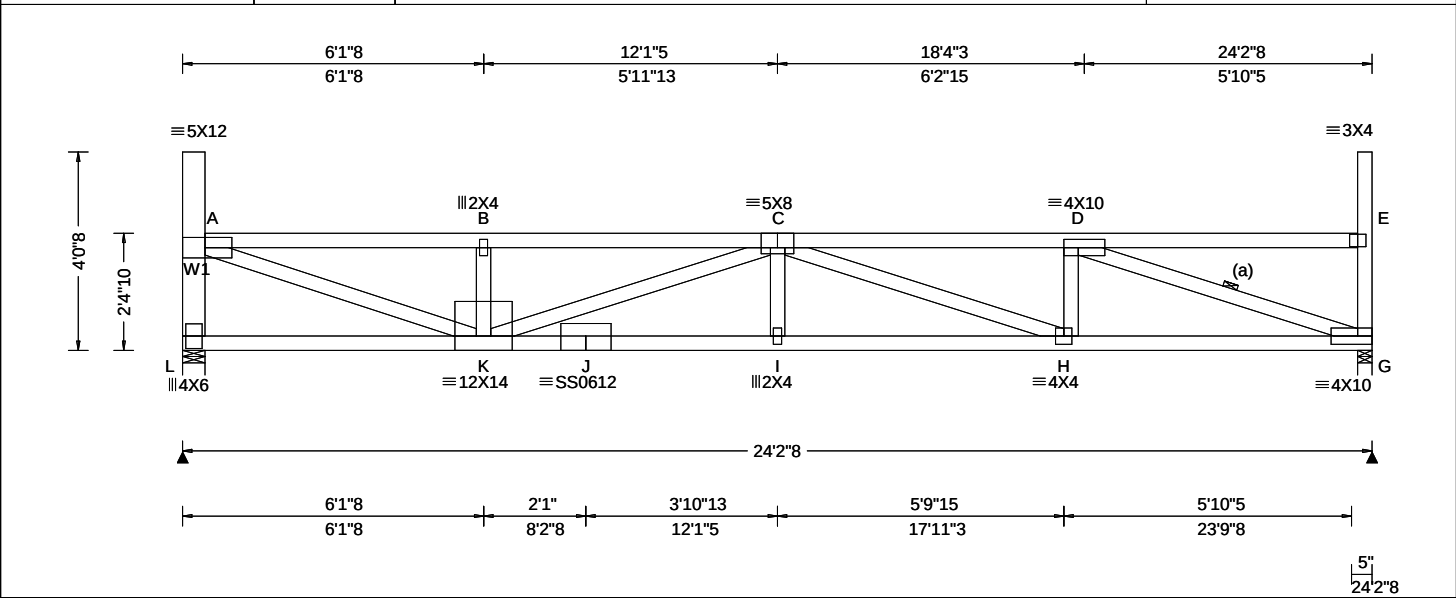


05/19/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36720 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T24	Cust: R 9316 JRef:1XIO93160002 T120 DrwNo: 139.22.0903.15491 / NDW 05/19/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
TCCL:	20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity		
TCDL:	15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.298 I 973 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
BCCL:	15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.555 I 523 240	L	1542	/-	/-	/730	/78 /119
BCDL:	15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.054 G - -	G	1553	/-	/-	/736	/81 /-
Des Ld:	65.00	EXP: B Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	HORZ(TL): 0.100 G - -	Wind reactions based on MWFRS					
NCBCLL:	0.00	Mean Height: 21.39 ft		Creep Factor: 2.0	L	Brg Wid = 5.5	Min Req = 2.0 (Truss)			
Soffit:	2.00	TCDL: 5.0 psf		Max TC CSI: 0.822	G	Brg Wid = 3.5	Min Req = 2.0 (Truss)			
Load Duration:	1.15	BCDL: 3.0 psf		Max BC CSI: 0.647	Bearings L & G are a rigid surface.					
Spacing:	24.0 "	MWFRS Parallel Dist: h/2 to h		Max Web CSI: 0.890	Members not listed have forces less than 375#					
					Maximum Top Chord Forces Per Ply (lbs)					
					Chords	Tens.Comp.	Chords	Tens. Comp.		
					A - B	195 - 3615	C - D	177 - 3649		
					B - C	194 - 3610				
					VIEW Ver: 21.02.00.1005.17					

Lumber	B - C	194 - 3610				
Top chord: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs)					
Bot chord: 2x4 SPF 2100f-1.8E;						
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;						
Bracing	Chords	Tens.Comp.	Chords	Tens.	Comp.	
	K - J	4678 - 265	I - H	4678	- 265	
	J - I	4678 - 265	H - G	3542	- 176	

(a) Continuous lateral restraint equally spaced on member.						Maximum Web Forces Per Ply (lbs)				
Loading						Webs	Tens.Comp.	Webs	Tens.	Comp.
Drifting snow load has been considered for only in plane loading as follows:						L - A	93 - 1373	C - H	111	- 1093
Location	Lu1	Lu2	Height	Pd	W	A - K	3626 - 209	H - D	772	0
						K - C	112 - 1131	D - G	207	- 3704

0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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Deflection Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.
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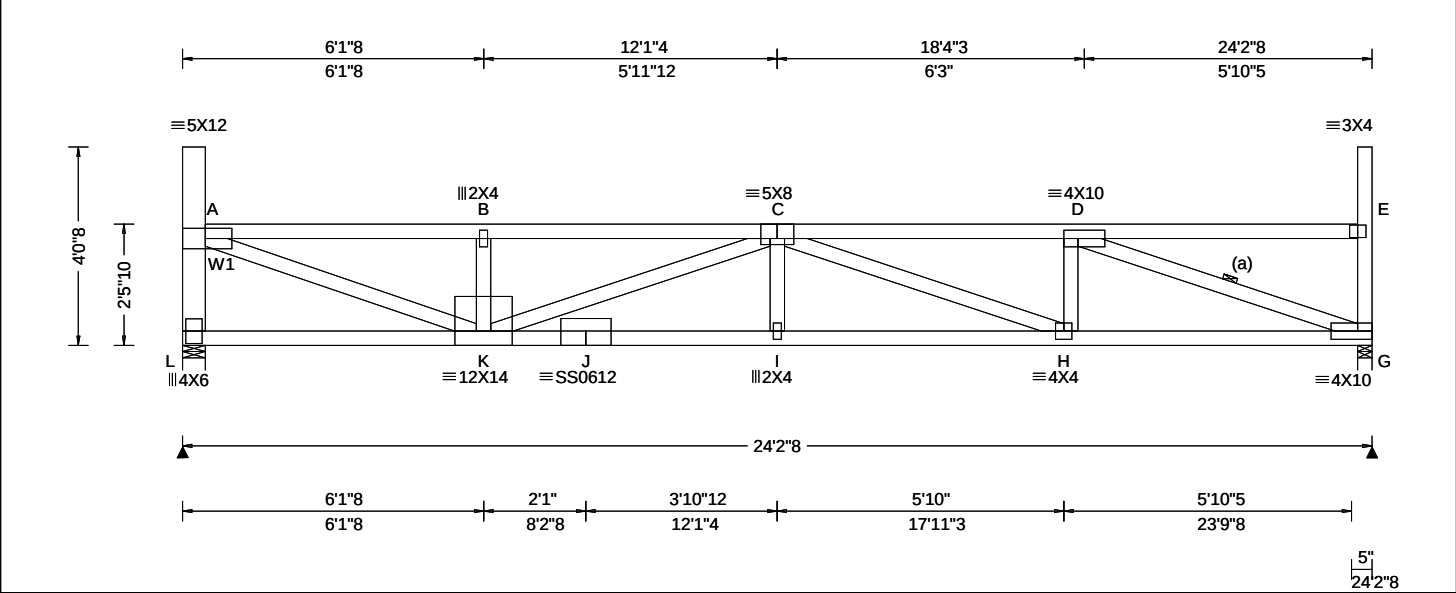


WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCEA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCEA: sbceacomponents.com; ICC: iccsafe.org; AWC: awc.org	05/19/2022 ALPINE AN ITW COMPANY 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 10

SEQN: 36722 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T26	Cust: R 9316 JRef:1XIO93160002 T106 DrwNo: 139.22.0903.14249 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.277 I 999 360 VERT(CL): 0.515 I 563 240 HORZ(LL): 0.052 G - - HORZ(TL): 0.096 G - - Creep Factor: 2.0 Max TC CSI: 0.754 Max BC CSI: 0.635 Max Web CSI: 0.860 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /730 /78 /116 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 189 -3480 C - D 171 -3512 B - C 188 -3475

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

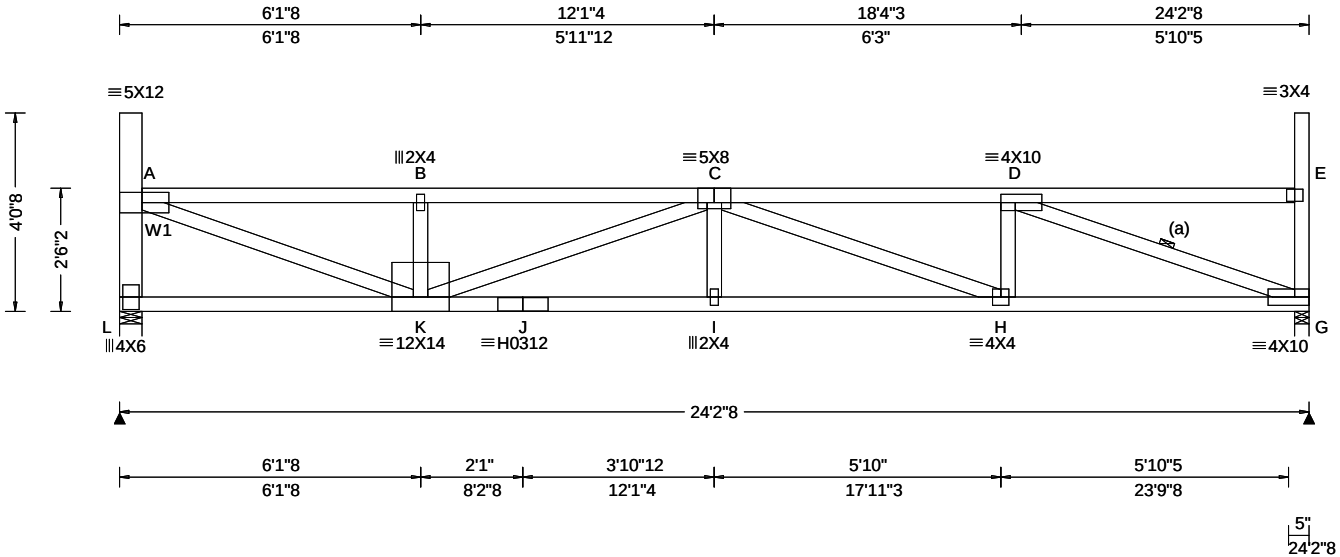


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SEQN: 36723 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T27	Cust: R 9316 JRef:1XIO93160002 T105 DrwNo: 139.22.0903.15911 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.268 I 999 360 VERT(CL): 0.497 I 584 240 HORZ(LL): 0.051 G - - HORZ(TL): 0.094 G - - Creep Factor: 2.0 Max TC CSI: 0.719 Max BC CSI: 0.629 Max Web CSI: 0.846 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /729 /79 /115 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 186 -3416 C - D 168 -3448 B - C 185 -3412

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

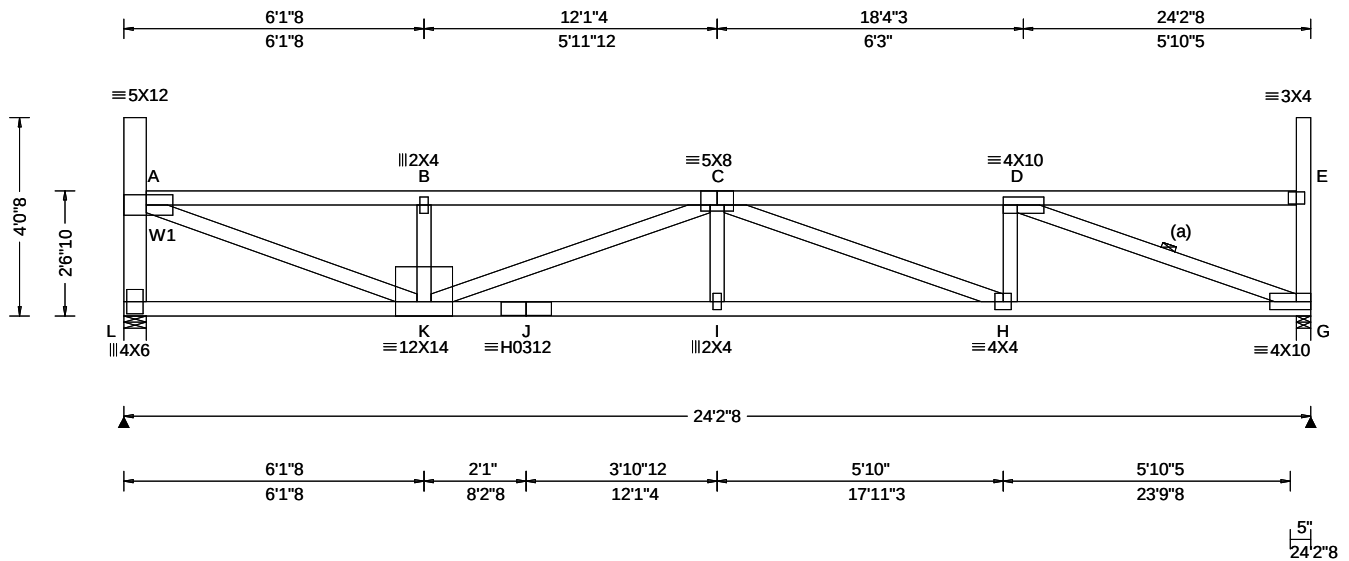


05/19/2022

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SEQN: 36724 /	FLAT	Ply: 1	Job Number: JB-220694	Cust: R 9316 JRef: 1XFO93160002 T107
FROM:		Qty: 2	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 139.22.0903.13178
			Truss Label: T28	/ NDW 05/19/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)								
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in	loc L/defl	L/#	Gravity			Non-Gravity					
TCDL: 15.00	Speed: 109 mph	Pf: 15.4		Ce: 1.0	VERT(LL):	0.258	I 999	360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 15.00	Enclosure: Closed	Lu: -	Cs: 1.00		VERT(CL):	0.480	I 604	240	L	1542	/-	/-	/729	/79	/113	
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15			HORZ(LL):	0.050	G -	-	G	1553	/-	/-	/736	/81	/-	
Des Ld: 65.00	EXP: B Kzt: NA				HORZ(TL):	0.093	G -	-	Wind reactions based on MWFRS							
NCBCLL: 0.00	Mean Height: 21.55 ft				Creep Factor: 2.0				L Brg Wid = 5.5 Min Req = 2.0 (Truss)							
Soffit: 2.00	TCDL: 5.0 psf				Max TC CSI: 0.687				G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration: 1.15	BCDL: 3.0 psf				Max BC CSI: 0.623				Bearings L & G are a rigid surface.							
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h				Max Web CSI: 0.832				Members not listed have forces less than 375#							
	C&C Dist a: 3.00 ft								Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: not in 14.50 ft								Chords		Tens.Comp.		Chords		Tens. Comp.	
	GCpi: 0.18								A - B	183 - 3355		C - D		165 - 3386		
	Wind Duration: 1.60								D - C	193 - 3950						
									VIEW Ver: 21.02.00.1005.17							

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



05/19/2022

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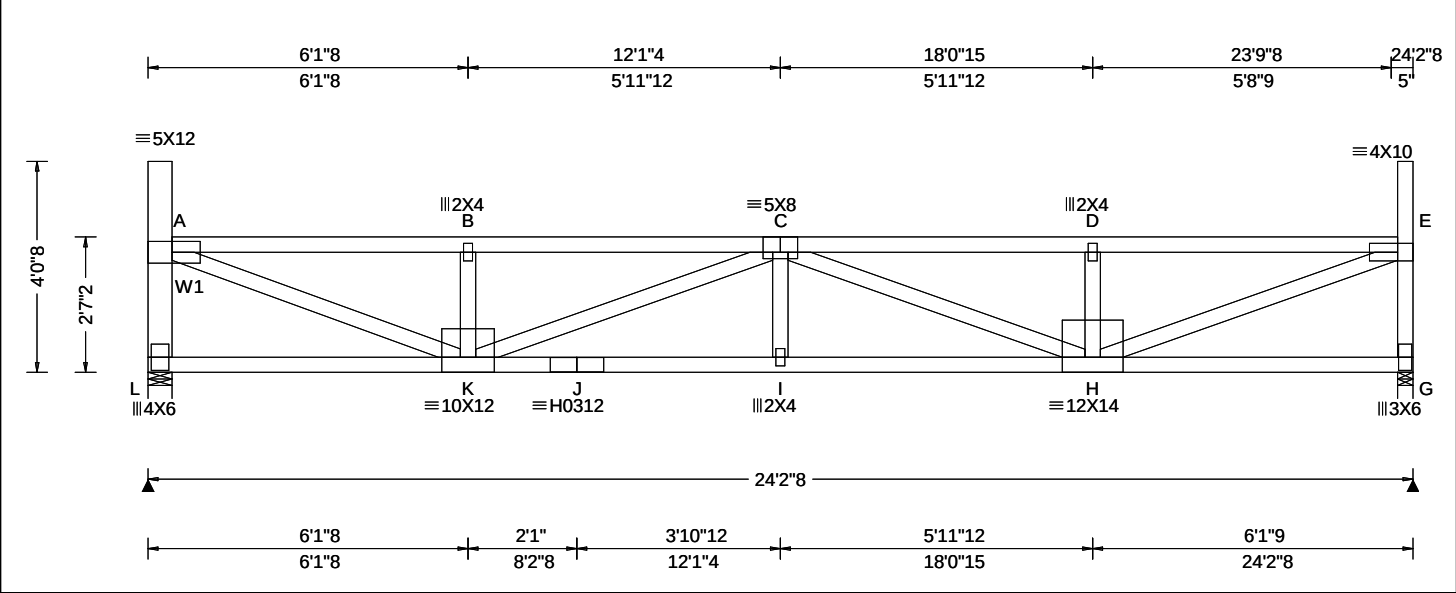
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36725 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T29	Cust: R 9316 JRef:1XIO93160002 T111 DrwNo: 139.22.0903.10487 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.476 I 610 240 HORZ(LL): 0.049 A - - HORZ(TL): 0.090 A - - Creep Factor: 2.0 Max TC CSI: 0.694 Max BC CSI: 0.608 Max Web CSI: 0.836 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /729 /79 /112 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 180 -3295 C - D 165 -3299 B - C 180 -3291 D - E 166 -3304

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.45 17.27 4.16
23.92 0.00 23.46 1.45 17.27 4.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

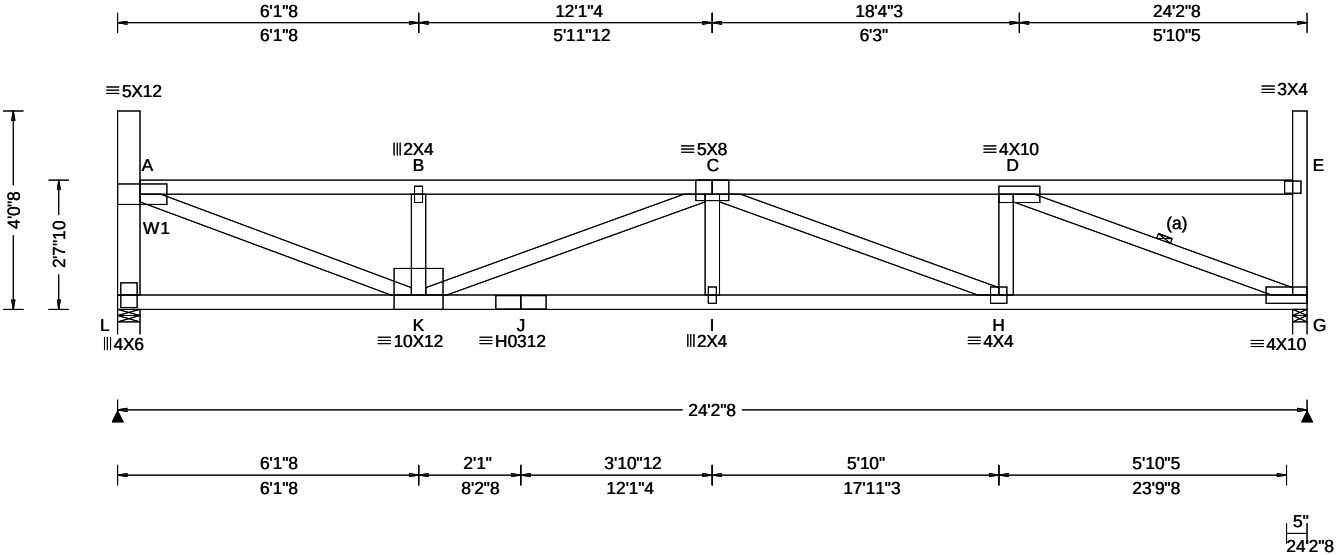


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SEQN: 36726 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T30	Cust: R 9316 JRef:1XIO93160002 T122 DrwNo: 139.22.0903.16939 / NDW 05/19/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.242 I 999 360 VERT(CL): 0.449 I 646 240 HORZ(LL): 0.048 G - - HORZ(TL): 0.089 G - - Creep Factor: 2.0 Max TC CSI: 0.649 Max BC CSI: 0.612 Max Web CSI: 0.806 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				L	1542	/-	/-	/729	/79	/111
				G	1553	/-	/-	/735	/81	/-
				Wind reactions based on MWFRS						
				L Brg Wid = 5.5 Min Req = 2.0 (Truss)						
				G Brg Wid = 3.5 Min Req = 2.0 (Truss)						
				Bearings L & G are a rigid surface.						
				Members not listed have forces less than 375#						
			Maximum Top Chord Forces Per Ply (lbs)							
			Chords		Tens.Comp.		Chords		Tens. Comp.	
			A - B	178 - 3238		C - D		159 - 3267		
			B - C	177 - 3234						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

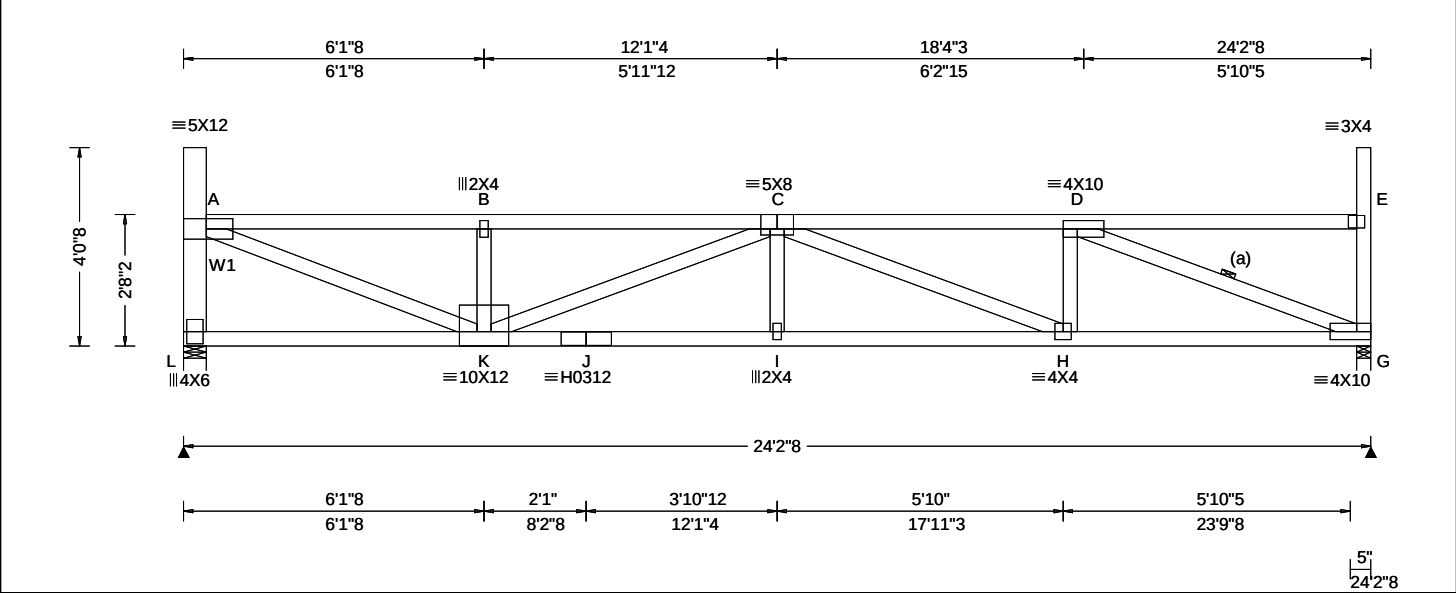


05/19/2022

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SEQN: 36727 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T31	Cust: R 9316 JRef:1XIO93160002 T129 DrwNo: 139.22.0903.17947 / NDW 05/19/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.234 I 999 360 VERT(CL): 0.435 I 668 240 HORZ(LL): 0.047 G - - HORZ(TL): 0.088 G - - Creep Factor: 2.0 Max TC CSI: 0.637 Max BC CSI: 0.606 Max Web CSI: 0.794 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
	L	1542	/-	/-	/729	/79	/109			
	G	1553	/-	/-	/735	/81	/-			
	Wind reactions based on MWFRS									
	L Brg Wid = 5.5 Min Req = 2.0 (Truss)									
	G Brg Wid = 3.5 Min Req = 2.0 (Truss)									
	Bearings L & G are a rigid surface.									
	Members not listed have forces less than 375#									
Maximum Top Chord Forces Per Ply (lbs)										
			Chords		Tens.Comp.		Chords		Tens. Comp.	
A - B	175 - 3183		C - D		156 - 3211					
B - C	174 - 3178									

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.36 14.50 3.50
23.92 0.00 23.46 1.36 14.50 3.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

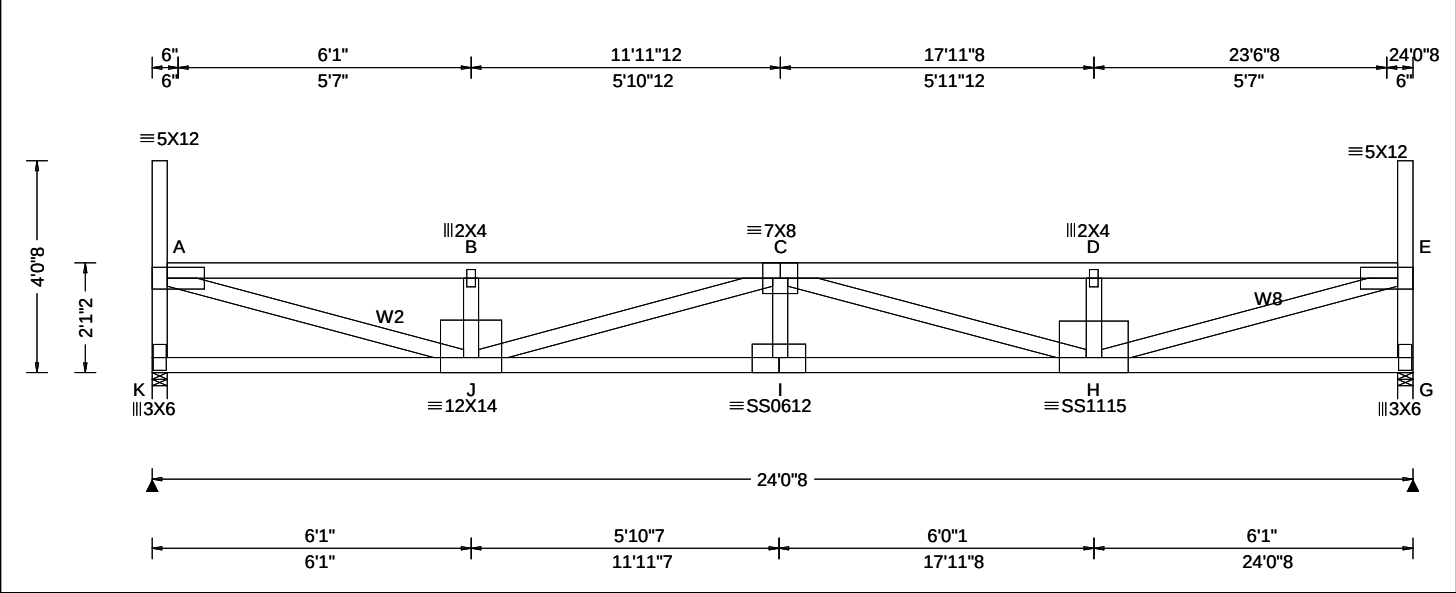
Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 36728 / FROM:	FLAT Ply: 1 Qty: 11	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T33	Cust: R 9316 JRef:1XIO93160002 T166 DrwNo: 139.22.0903.10402 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.380 I 759 360 VERT(CL): 0.706 I 408 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.110 A - - Creep Factor: 2.0 Max TC CSI: 0.932 Max BC CSI: 0.715 Max Web CSI: 0.844 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 -/- /733 /80 /138 G 1542 -/- /733 /80 -/ Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 239 -4139 C - D 239 -4138 B - C 238 -4133 D - E 239 -4143

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.95 33.87 4.20
23.75 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

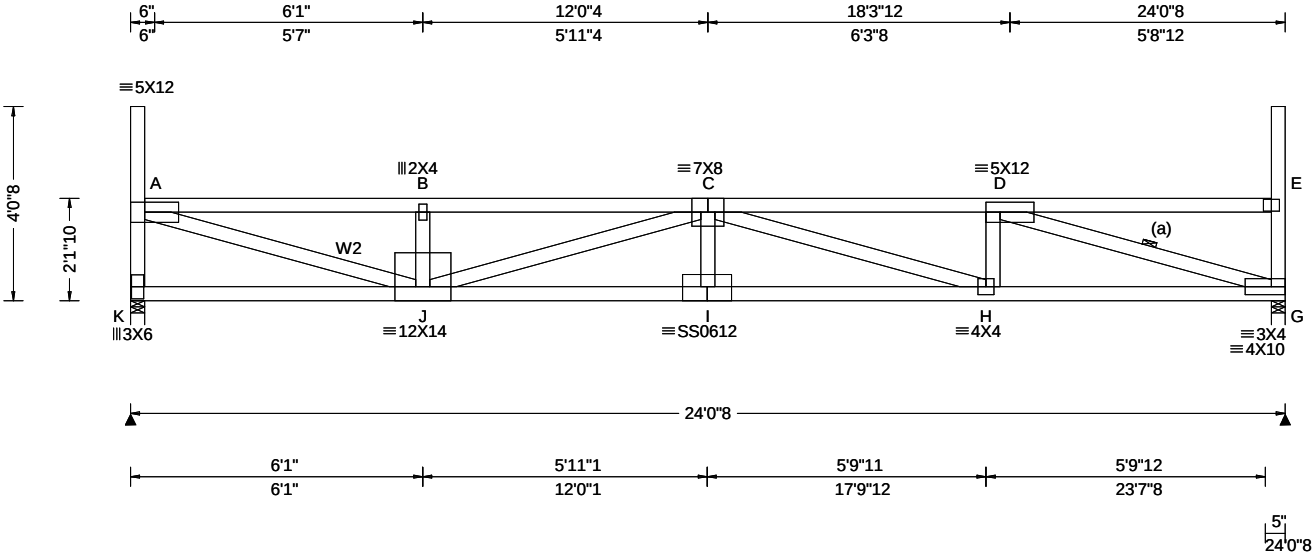


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SEQN: 36729 / FROM:	FLAT Ply: 1 Qty: 11	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T34	Cust: R 9316 JRef:1XIO93160002 T154 DrwNo: 139.22.0903.09789 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.363 I 795 360 VERT(CL): 0.674 I 428 240 HORZ(LL): 0.059 G - - HORZ(TL): 0.110 G - - Creep Factor: 2.0 Max TC CSI: 0.916 Max BC CSI: 0.703 Max Web CSI: 0.849 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1542 /- /- /732 /80 /137 G 1542 /- /- /732 /80 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 235 - 4051 C - D 231 - 4073 B - C 234 - 4046

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

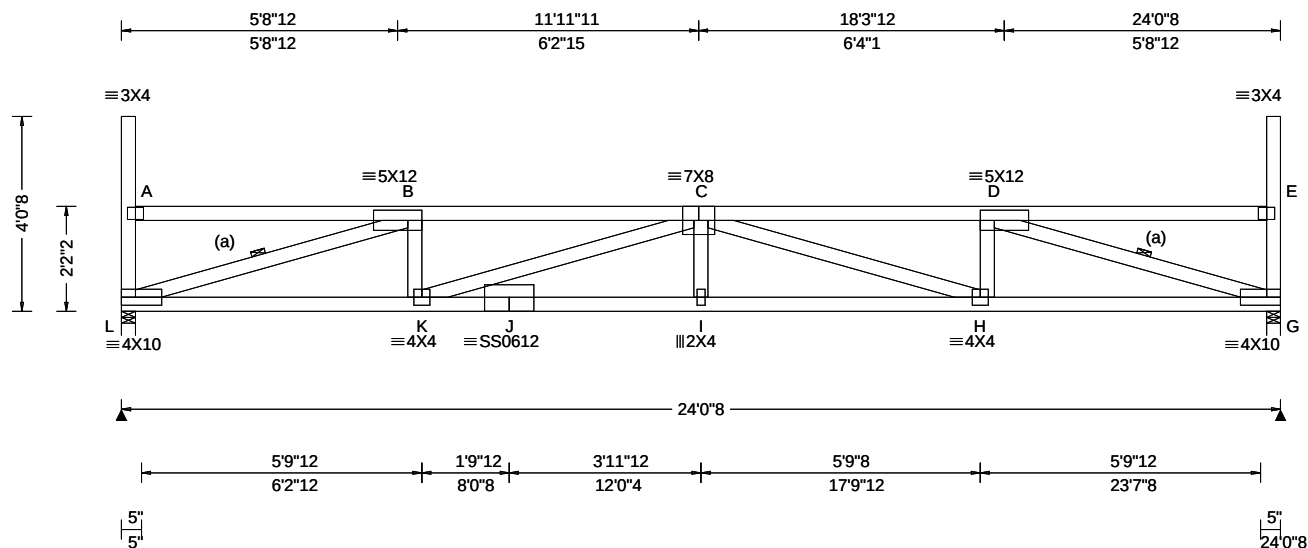


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SEQN: 36730 / FROM:	FLAT Qty: 11	Job Number: JB-220694 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T35	Cust: R 9316 JRef: 1XfO93160002 T156 DrwNo: 139.22.0903.14883 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.346 I 833 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.643 I 448 240	L 1541 /- /- /732 /80 /135
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.073 G - -	G 1541 /- /- /732 /80 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.136 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.18 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.679	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.683	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.833	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE. 18SS	VIEW Ver: 21.02.00.1005.17	B - C 225 - 3982 C - D 225 - 3981

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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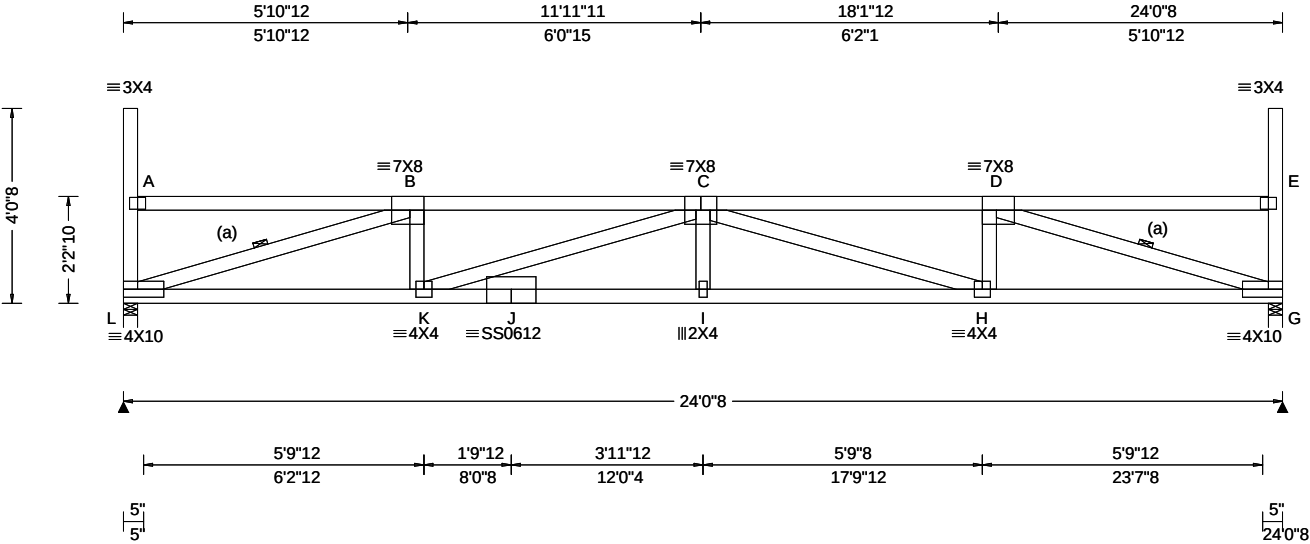
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36731 / FROM:	FLAT Ply: 1 Qty: 11	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T36	Cust: R 9316 JRef:1XIO93160002 T152 DrwNo: 139.22.0903.13275 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.332 I 868 360 VERT(CL): 0.617 I 467 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.134 G - - Creep Factor: 2.0 Max TC CSI: 0.656 Max BC CSI: 0.673 Max Web CSI: 0.820 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 /- /- /732 /80 /134 G 1541 /- /- /732 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 221 - 3898 C - D 221 - 3897

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



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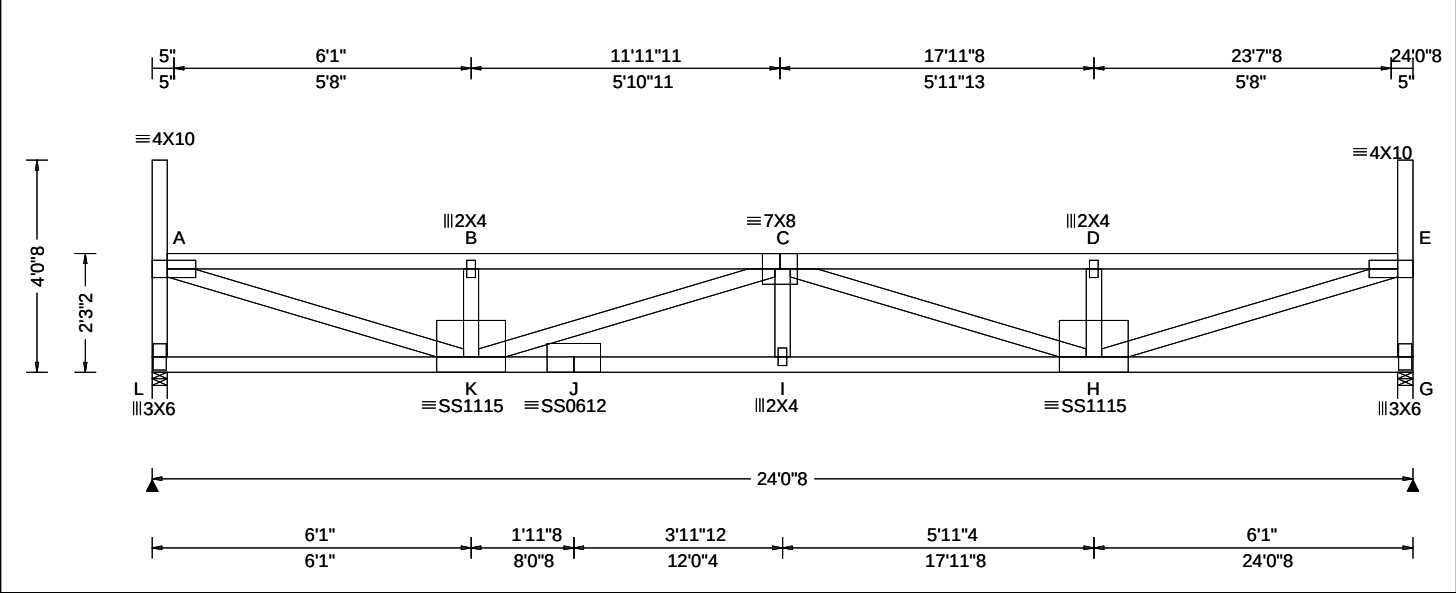
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36732 / FROM:	FLAT Ply: 1 Qty: 11	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T37	Cust: R 9316 JRef:1XIO93160002 T160 DrwNo: 139.22.0903.12771 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.336 I 859 360 VERT(CL): 0.624 I 462 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.101 A - - Creep Factor: 2.0 Max TC CSI: 0.869 Max BC CSI: 0.662 Max Web CSI: 0.945 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 - / - / 732 / 80 / 133 G 1541 - / - / 732 / 80 / - Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 199 - 3791 C - D 198 - 3785 B - C 198 - 3786 D - E 198 - 3790

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.78 28.34 5.03
23.75 0.00 23.46 1.78 28.34 5.03
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.

End verticals exposed to wind pressure. Deflection
meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

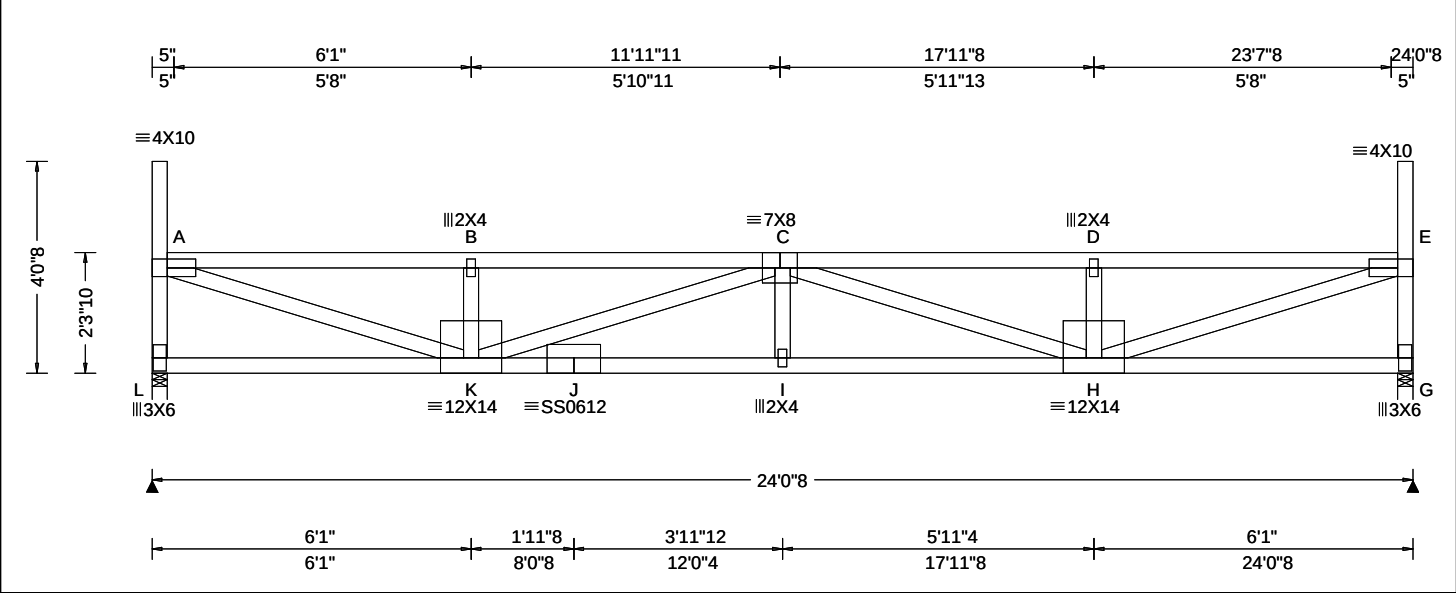


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SEQN: 36733 / FROM:	FLAT Ply: 1 Qty: 11	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T38	Cust: R 9316 JRef:1XIO93160002 T162 DrwNo: 139.22.0903.10759 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.323 I 893 360 VERT(CL): 0.600 I 480 240 HORZ(LL): 0.053 A - - HORZ(TL): 0.099 A - - Creep Factor: 2.0 Max TC CSI: 0.854 Max BC CSI: 0.652 Max Web CSI: 0.928 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 /- /- /732 /80 /132 G 1541 /- /- /732 /80 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 195 -3715 C - D 194 -3709 B - C 194 -3710 D - E 195 -3714

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.74 26.95 5.28
23.75 0.00 23.46 1.74 26.95 5.28
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

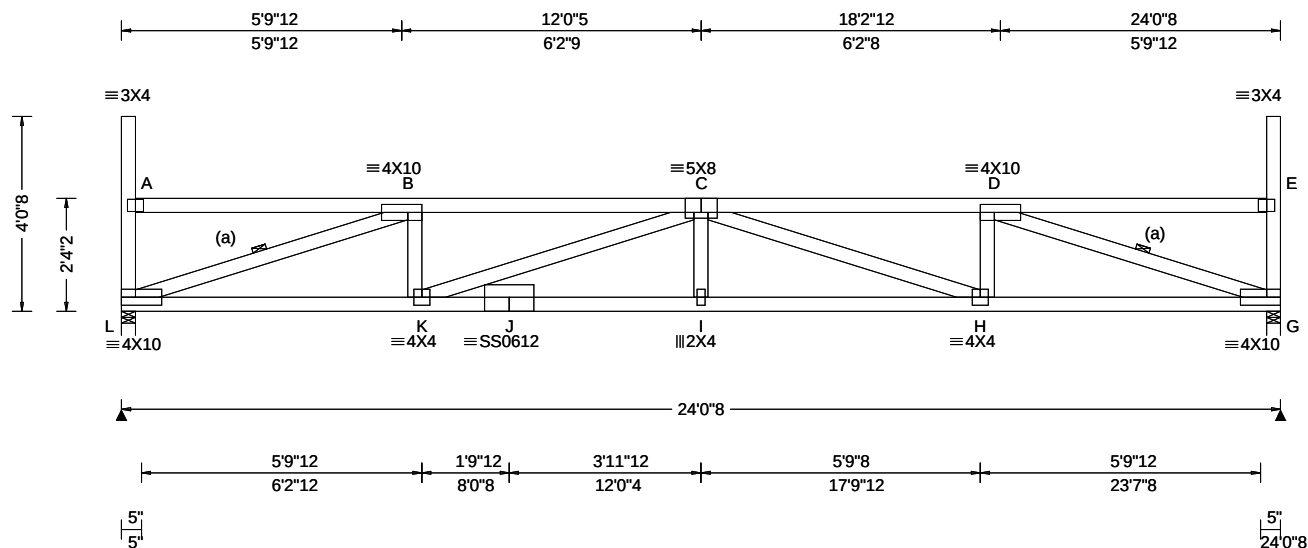


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SEQN: 36734 / FROM:	FLAT	Ply: 1 Qty: 11	Job Number: JB-220694 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T39	Cust: R 9316 JRef: 1XfO93160002 T158 DrwNo: 139.22.0903.10865 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.296 I 976 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.549 I 525 240	L 1542 /- /- /732 /81 /131
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.068 G - -	G 1542 /- /- /732 /81 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.126 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.34 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.598	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.650	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.783	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE. 18SS	VIEW Ver: 21.02.00.1005.17	B - C 188 -3671 C - D 189 -3670

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



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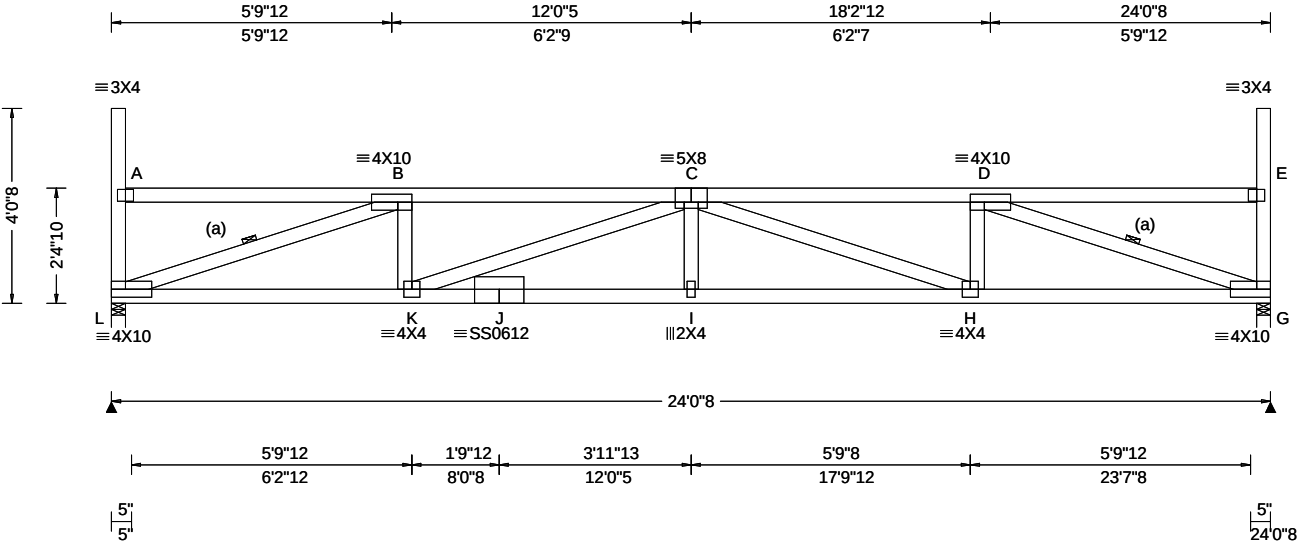
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36735 / FROM:	FLAT Ply: 1 Qty: 11	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T40	Cust: R 9316 JRef:1XIO93160002 T155 DrwNo: 139.22.0903.14818 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity							
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(LL): 0.285 I 999 360	L	1542	/-	/-	/732	/81	/129
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	VERT(CL): 0.529 I 545 240	G	1542	/-	/-	/732	/81	/-
	Des Ld: 65.00	EXP: B Kzt: NA		HORZ(LL): 0.066 G - -	Wind reactions based on MWFRS						
	NCBCLL: 0.00	Mean Height: 21.39 ft	Building Code:	HORZ(TL): 0.123 G - -	L	Brg Wid = 3.5	Min Req = 2.0	(Truss)			
	Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Creep Factor: 2.0	G	Brg Wid = 3.5	Min Req = 2.0	(Truss)			
	Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max TC CSI: 0.583	Bearings L & G are a rigid surface.						
	Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max BC CSI: 0.643	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Max Web CSI: 0.772	Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords	Tens.Comp.	Chords	Tens. Comp.				
	GCpi: 0.18			B - C	185 - 3600	C - D	185 - 3598				
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



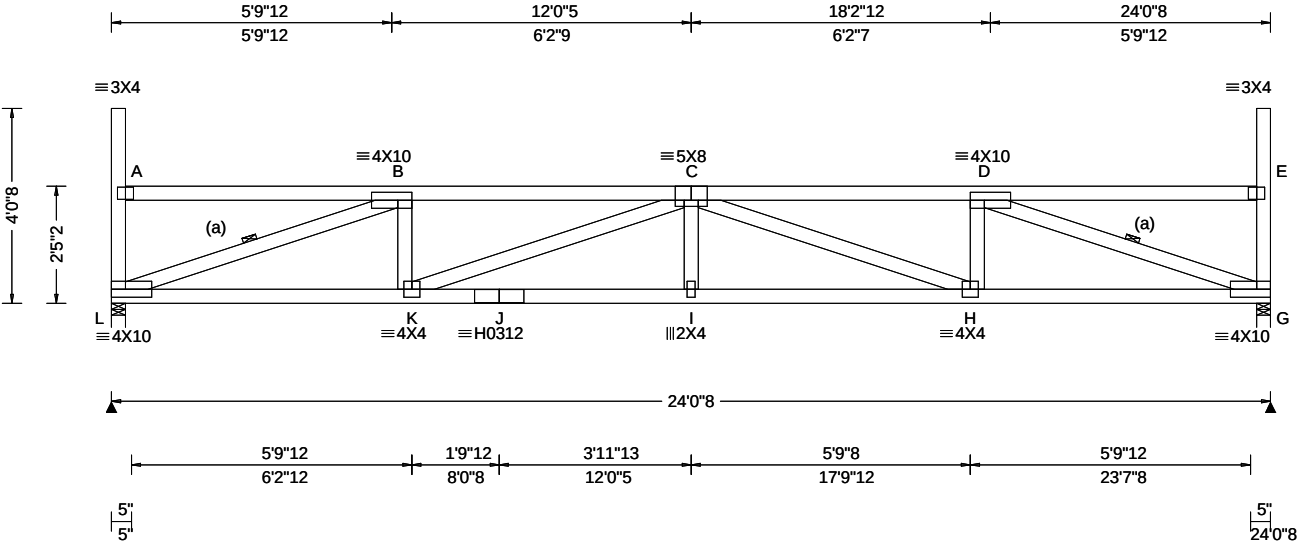
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Building 10

SEQN: 36736 / FROM:	FLAT Ply: 1 Qty: 11	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T41	Cust: R 9316 JRef:1XIO93160002 T151 DrwNo: 139.22.0903.13832 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.274 I 999 360 VERT(CL): 0.510 I 565 240 HORZ(LL): 0.065 G - - HORZ(TL): 0.121 G - - Creep Factor: 2.0 Max TC CSI: 0.568 Max BC CSI: 0.637 Max Web CSI: 0.761 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /81 /128 G 1542 /- /- /732 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 182 -3531 C - D 182 -3530

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

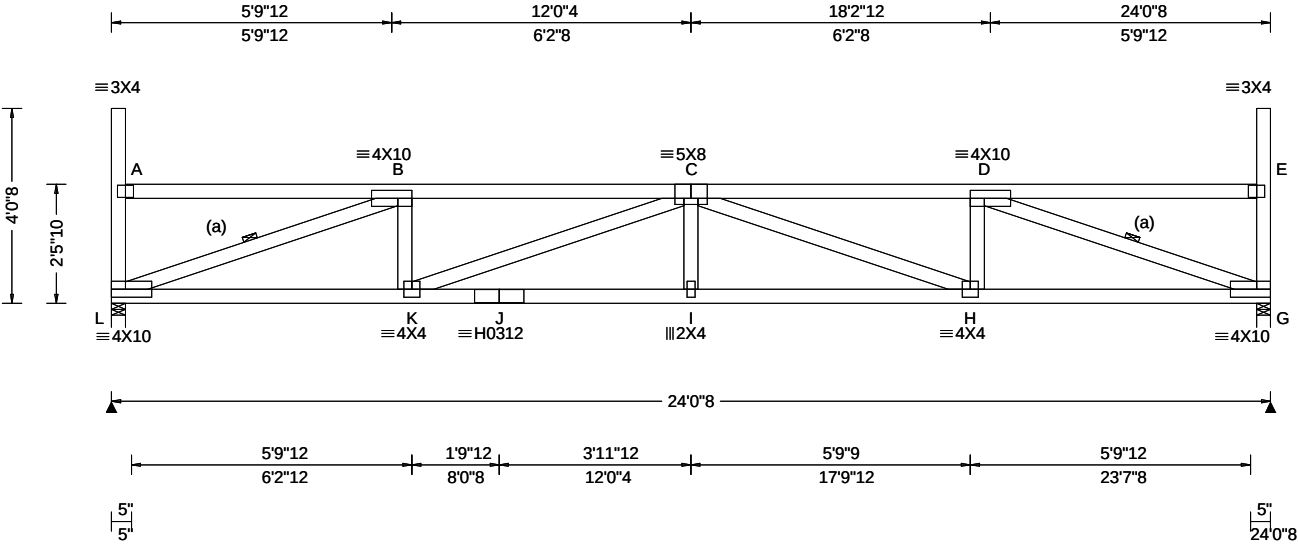


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SEQN: 36737 / FROM:	FLAT Qty: 11	Ply: 1	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T42	Cust: R 9316 JRef:1XIO93160002 T164 DrwNo: 139.22.0903.10892 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.265 I 999 360 VERT(CL): 0.492 I 586 240 HORZ(LL): 0.064 G - - HORZ(TL): 0.119 G - - Creep Factor: 2.0 Max TC CSI: 0.553 Max BC CSI: 0.631 Max Web CSI: 0.751 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /81 /127 G 1542 /- /- /732 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 179 -3465 C - D 179 -3464

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

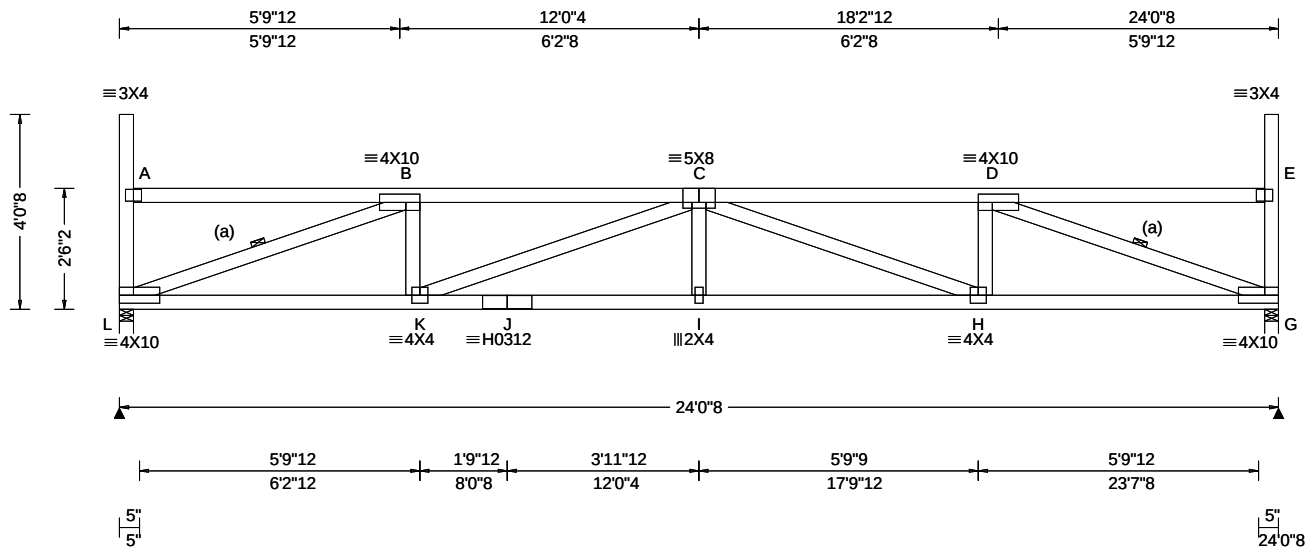


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SEQN: 36738 /	FLAT	Ply: 1	Job Number: JB-220694	Cust: R 9316 JRef: 1XFO93160002 T161
FROM:		Qty: 11	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 139.22.0903.10622
			Truss Label: T43	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.255 I 999 360	Loc R+ /R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.475 I 607 240	L 1542 /- /- /731 /81 /126
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.063 G - -	G 1542 /- /- /731 /81 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.116 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.51 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.540	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.625	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.741	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	WAVE, HS	VIEW Ver: 21.02.00.1005.17	B - C 176 - 3401 C - D 177 - 3400
	Wind Duration: 1.60			

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



05/19/2022

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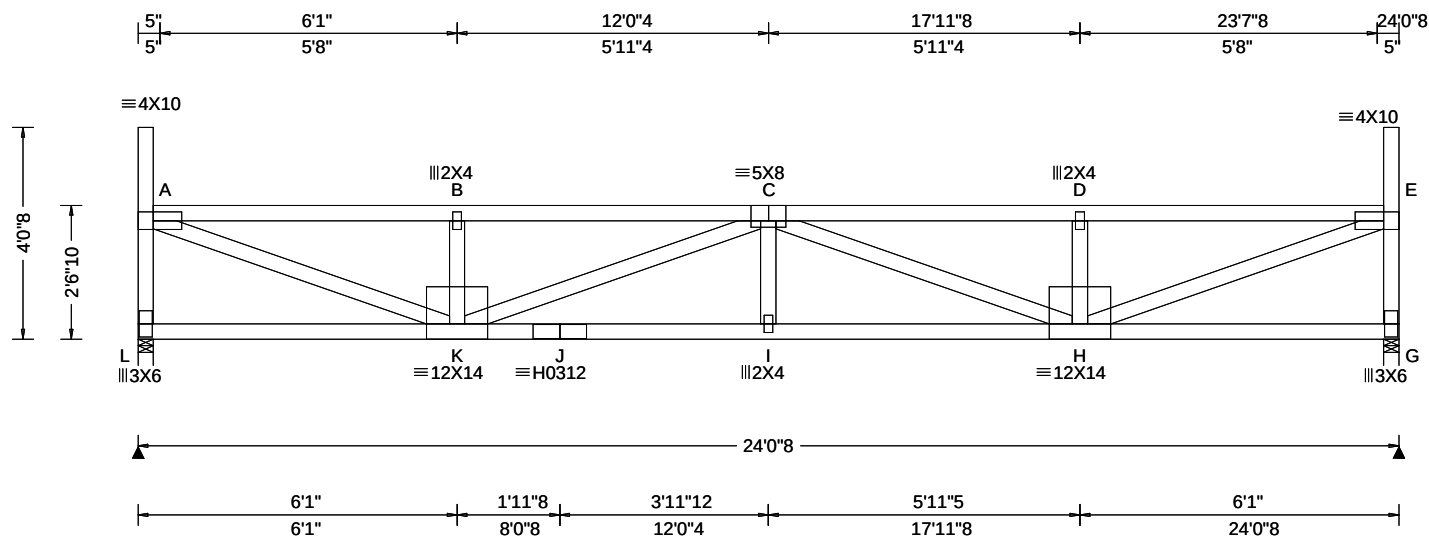
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36739 /	FLAT	Ply: 1	Job Number: JB-220694	Cust: R 9316 JRef:1XfO93160002 T143
FROM:		Qty: 11	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.0903.15061
			Truss Label: T44	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.260 I 999 360	Loc R+ / R- / Rh / Rw U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.482 I 597 240	L 1542 /- /- /731 /82 /125
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.048 A - -	G 1542 /- /- /731 /82 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.089 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.55 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.693	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.608	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.838	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			A - B 178 - 3318 C - D 177 - 3312
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.49	18.65	4.50
23.75	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



05/19/2022

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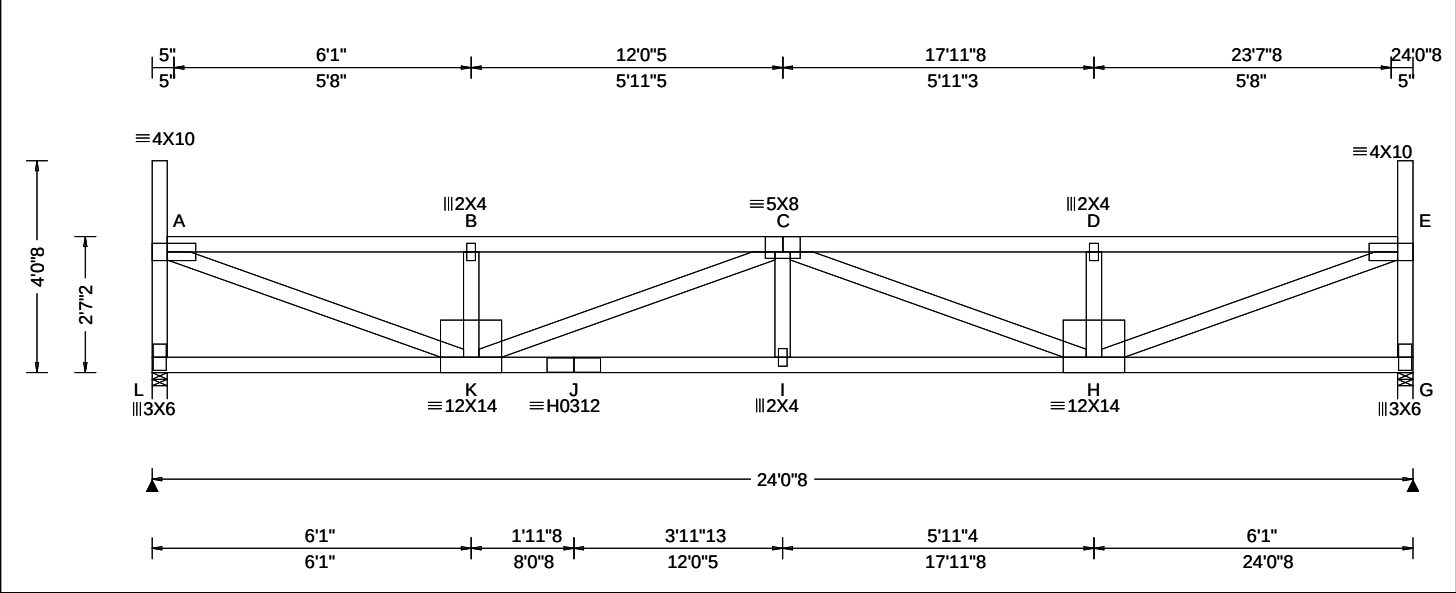
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SEQN: 36740 / FROM:	FLAT Ply: 1 Qty: 11	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T45	Cust: R 9316 JRef:1XIO93160002 T153 DrwNo: 139.22.0903.10155 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.251 I 999 360 VERT(CL): 0.466 I 618 240 HORZ(LL): 0.047 A - - HORZ(TL): 0.088 A - - Creep Factor: 2.0 Max TC CSI: 0.676 Max BC CSI: 0.602 Max Web CSI: 0.825 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /82 /124 G 1542 /- /- /731 /82 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 175 - 3260 C - D 174 - 3253 B - C 175 - 3255 D - E 175 - 3258 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4200 - 253 I - H 4200 - 253 J - I 4200 - 253 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 96 - 1385 C - H 97 - 1015 A - K 3364 - 193 D - H 77 - 378 B - K 77 - 378 H - E 3362 - 194 K - C 100 - 1013 E - G 96 - 1385

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.45 17.27 4.16
23.75 0.00 23.46 1.45 17.27 4.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.

End verticals exposed to wind pressure. Deflection
meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

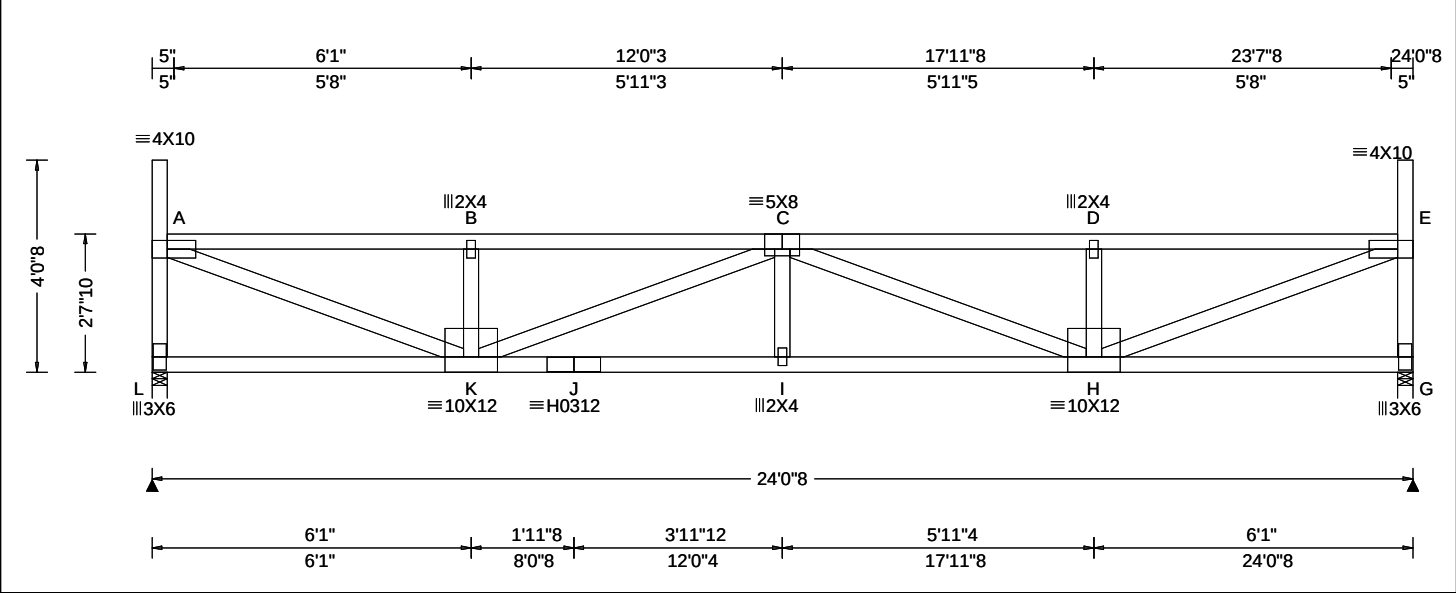
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 36741 / FROM:	FLAT Ply: 1 Qty: 11	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T46	Cust: R 9316 JRef:1XIO93160002 T148 DrwNo: 139.22.0903.09710 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity						
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCCL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	L	1542	/-	/-	/731	/82	/122
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	G	1542	/-	/-	/731	/82	/-
Des Ld: 65.00	EXP: B Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Wind reactions based on MWFRS							
NCBCLL: 0.00	Mean Height: 21.64 ft		L Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Soffit: 2.00	TCDL: 5.0 psf		G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration: 1.15	BCDL: 3.0 psf		Bearings L & G are a rigid surface.							
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h		Members not listed have forces less than 375#							
	C&C Dist a: 3.00 ft		Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: not in 14.50 ft		Chords Tens.Comp. Chords Tens. Comp.							
	GCpi: 0.18		A - B	173	- 3203	C - D	172	- 3197		
	Wind Duration: 1.60		B - C	172	- 3198	D - E	172	- 3202		
			VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.41 15.89 3.83
23.75 0.00 23.46 1.41 15.89 3.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

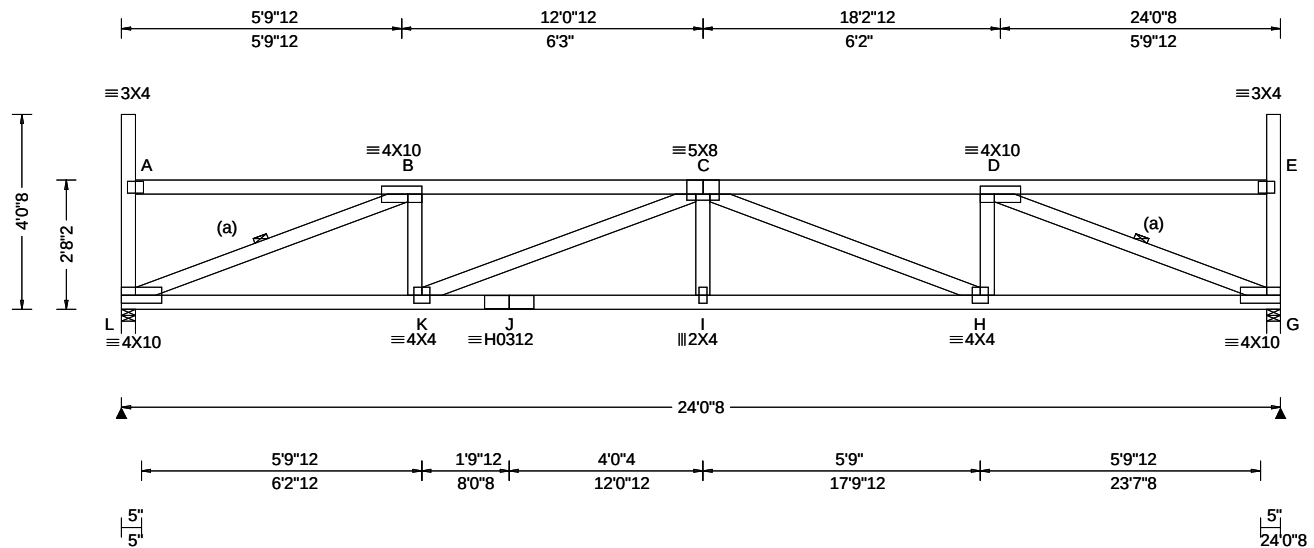


05/19/2022

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SEQN: 36742 /	FLAT	Ply: 1	Job Number: JB-220694	Cust: R 9316 JRef:1XIO93160002 T163
FROM:		Qty: 11	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.0903.09876
			Truss Label: T47	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.223 I 999 360	Loc R+ /R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.415 I 694 240	L 1542 /- /- /731 /82 /121
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.058 G - -	G 1542 /- /- /731 /82 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.108 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.68 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.516	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.604	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.706	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	B - C 166 -3169 C - D 166 -3166

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



~~05/19/2022~~

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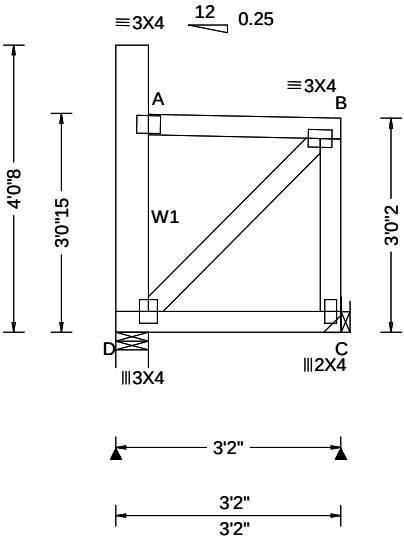
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36743 / FROM:	MONO Ply: 1 Qty: 14	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48	Cust: R 9316 JRef:1XIO93160002 T139 DrwNo: 139.22.0903.13862 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	176	/-	/-	/111	/52	/78
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.001 B 999 240	C	204	/-	/-	/149	/46	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 22.04 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = - Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.139	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.123	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.028							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: not in 29.00 ft	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

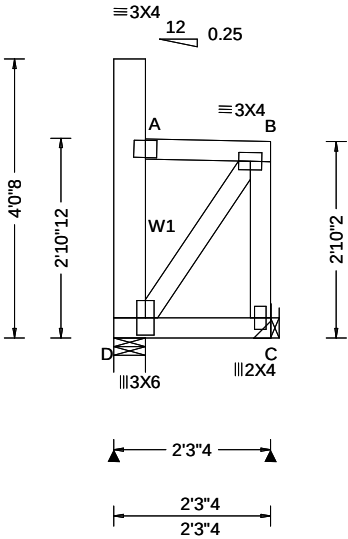
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 36745 / FROM:	MONO Ply: 1 Qty: 52	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T49	Cust: R 9316 JRef:1XIO93160002 T230 DrwNo: 139.22.0903.10885 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	119	/-	/-	/98	/77	/80
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	144	/-	/-	/147	/60	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
NCBCLL: 0.00	Mean Height: 21.87 ft	Building Code:	Creep Factor: 2.0	C Brg Wid = - Min Req = -						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.065	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.063	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.042							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

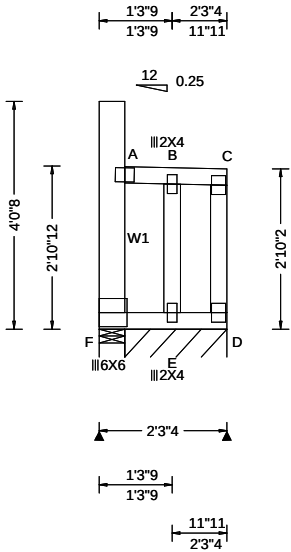
Truss must be installed as shown with top chord up.



05/19/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 36746 / FROM:	MONO Ply: 1 Qty: 13	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T50	Cust: R 9316 JRef:1XIO93160002 T128 DrwNo: 139.22.0903.10440 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.006 A 999 360	F	36	/-8	/-	/96	/138	/80
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 A 999 240	D*	139	/-	/-	/141	/57	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.111 B - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.128 B - -	F	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 21.87 ft	Building Code:	Creep Factor: 2.0	D	Brg Wid = 21.7 Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.110	Bearings F & F are a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.254	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.115							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: not in 14.50 ft	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

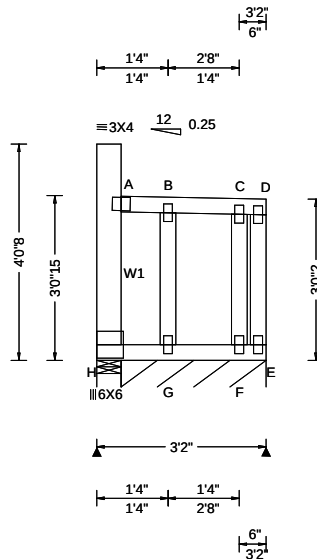
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 36747 / FROM:	GABL Qty: 8	Job Number: JB-220694 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T51	Cust: R 9316 JRef: 1XIO93160002 T114 DrwNo: 139.22.0903.12777 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or ▲=PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	Loc R+ /R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240	H 47 /- /- /122 /130 /90
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.121 C - -	E* 123 /- /- /106 /43 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.142 B - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.04 ft	Building Code:	Creep Factor: 2.0	H Brg Wid = 5.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.087	E Brg Wid = 32.5 Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.243	Bearings H & H are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.109	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: not in 29.00 ft	Plate Type(s):		
	GCpi: 0.18	WAVE		
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Fasten rated sheathing to one face of this frame.

All plates are 2X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



05/19/2022

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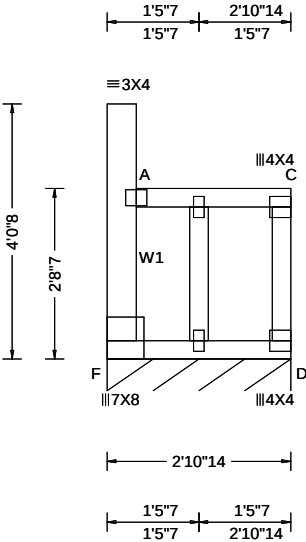
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36748 / FROM:	GABL Ply: 1 Qty: 11	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T52	Cust: R 9316 JRef:1XIO93160002 T15 / DrwNo: 139.22.0903.10288 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 360 VERT(CL): 0.009 A 999 240 HORZ(LL): 0.115 A - - HORZ(TL): 0.134 A - - Creep Factor: 2.0 Max TC CSI: 0.115 Max BC CSI: 0.323 Max Web CSI: 0.142 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				D*	119	/-	/-	/56	/4	/32
				Wind reactions based on MWFRS D Brg Wid = 34.9 Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.34 13.63 2.45
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.
Truss must be installed as shown with top chord up.

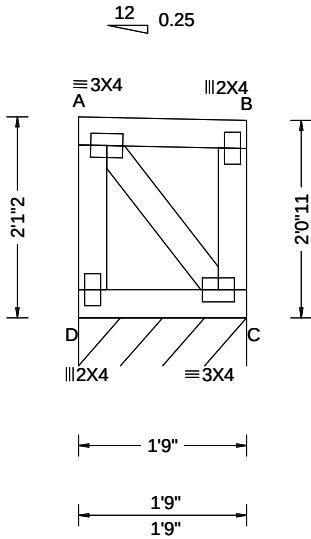


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Building 10

SEQN: 36752 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE01	Cust: R 9316 JRef:1XIO93160002 T188 DrwNo: 139.22.0903.18039 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.039 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS C Brg Wid = 21.0 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

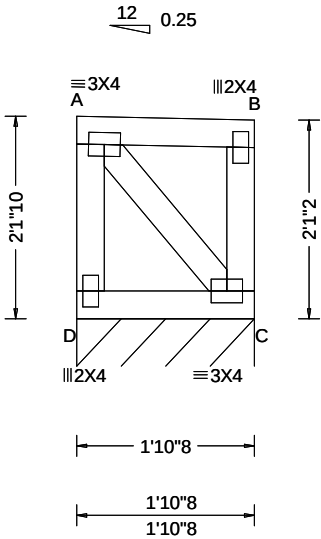


05/19/2022

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Building 10

SEQN: 36753 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE02	Cust: R 9316 JRef:1XIO93160002 T189 DrwNo: 139.22.0903.17303 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.12 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.022 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/18
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



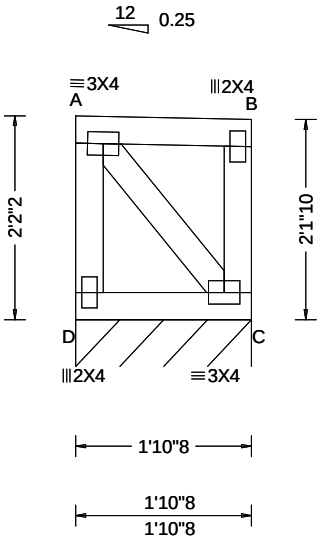
05/19/2022

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Building 10

SEQN: 36754 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE03	Cust: R 9316 JRef:1XIO93160002 T190 DrwNo: 139.22.0903.18840 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.16 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.023 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



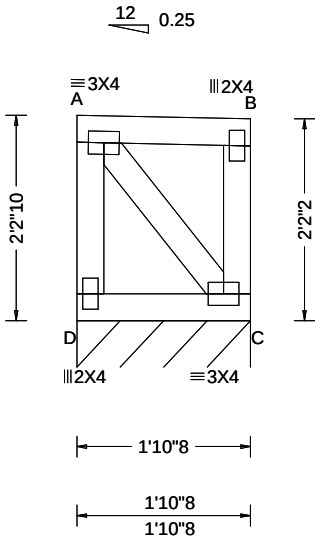
05/19/2022

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Building 10

SEQN: 36755 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE04	Cust: R 9316 JRef:1XIO93160002 T192 DrwNo: 139.22.0903.18899 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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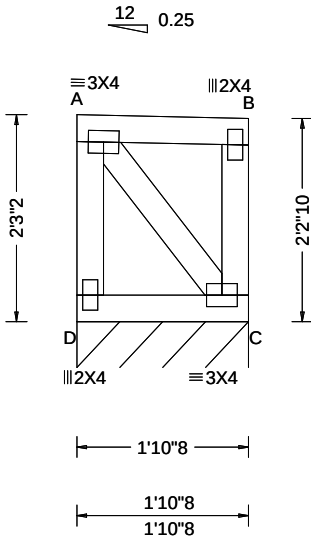
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36756 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE05	Cust: R 9316 JRef:1XIO93160002 T215 DrwNo: 139.22.0903.10698 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



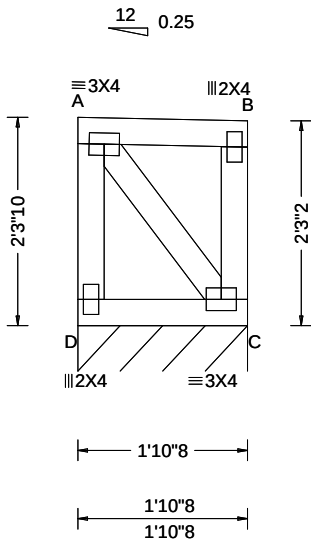
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Building 10

SEQN: 36757 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE06	Cust: R 9316 JRef:1XIO93160002 T219 DrwNo: 139.22.0903.10479 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.28 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.026 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

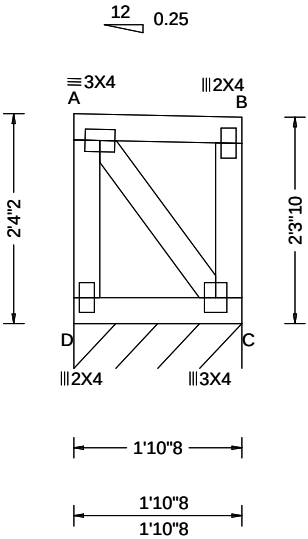


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Building 10

SEQN: 36758 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE07	Cust: R 9316 JRef:1XIO93160002 T220 DrwNo: 139.22.0903.09687 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.32 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.027 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /5 /21 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



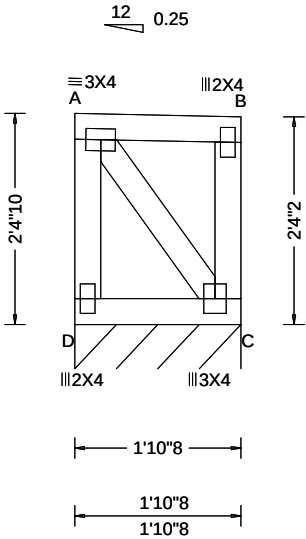
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Building 10

SEQN: 36759 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE08	Cust: R 9316 JRef:1XIO93160002 T221 DrwNo: 139.22.0903.19250 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



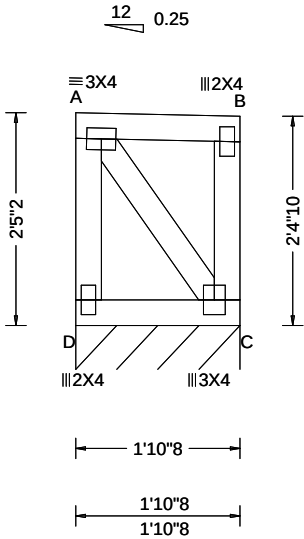
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Building 10

SEQN: 36760 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE09	Cust: R 9316 JRef:1XIO93160002 T222 DrwNo: 139.22.0903.17397 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.41 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.029 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /5 /22 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

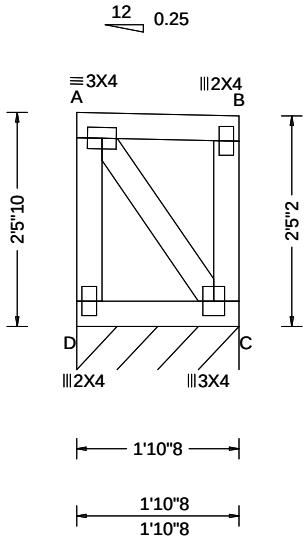


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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org	ALPINE AN ITW COMPANY 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 10

SEQN: 36761 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE10	Cust: R 9316 JRef:1XIO93160002 T223 DrwNo: 139.22.0903.15651 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.45 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.031 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

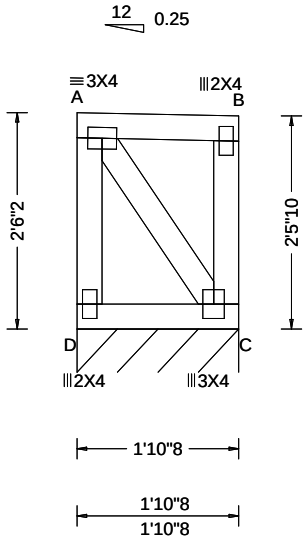


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Building 10

SEQN: 36762 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE11	Cust: R 9316 JRef:1XIO93160002 T224 DrwNo: 139.22.0903.12985 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.49 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.032 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



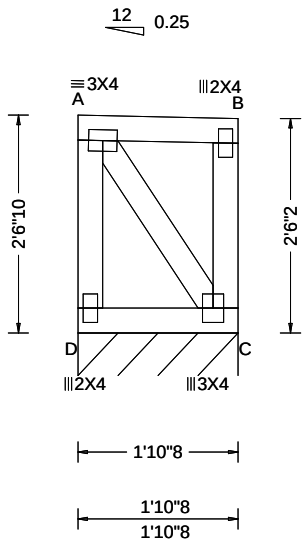
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Building 10

SEQN: 36763 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE12	Cust: R 9316 JRef:1XIO93160002 T225 DrwNo: 139.22.0903.10525 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



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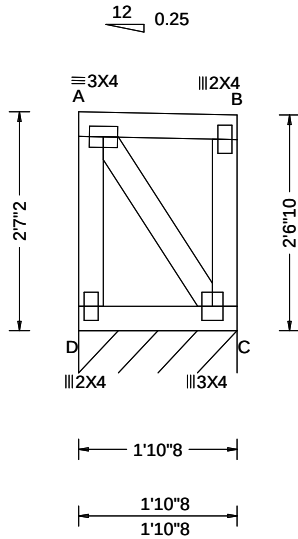
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36764 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE13	Cust: R 9316 JRef:1XIO93160002 T226 DrwNo: 139.22.0903.09852 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

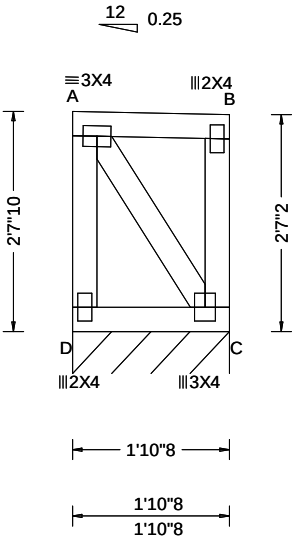


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Building 10

SEQN: 36765 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE14	Cust: R 9316 JRef:1XIO93160002 T227 DrwNo: 139.22.0903.10758 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.036 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



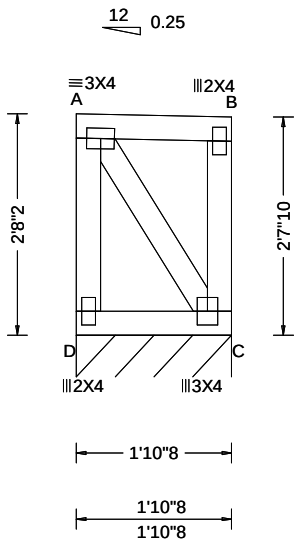
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Building 10

SEQN: 36766 / FROM:	MONO Ply: 1 Qty: 26	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE15	Cust: R 9316 JRef:1XIO93160002 T228 DrwNo: 139.22.0903.13912 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.037 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

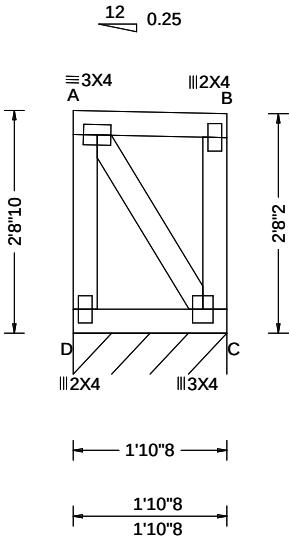


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Building 10

SEQN: 36767 / FROM:	MONO Ply: 1 Qty: 5	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE16	Cust: R 9316 JRef:1XIO93160002 T231 DrwNo: 139.22.0903.09804 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.038 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

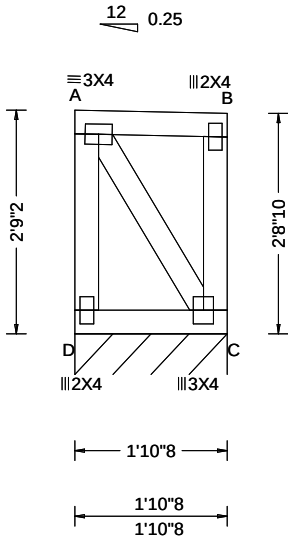


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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com ; TPI: tpinst.org ; SBCA: sbccomponents.com ; ICC: iccsafe.org ; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 10

SEQN: 36768 / FROM:	MONO Ply: 1 Qty: 18	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE17	Cust: R 9316 JRef:1XIO93160002 T251 DrwNo: 139.22.0903.12144 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

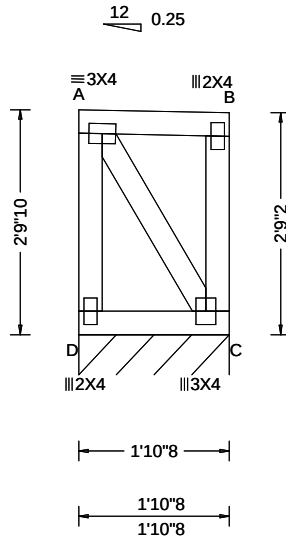


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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 36769 / FROM:	MONO Ply: 1 Qty: 18	Job Number: JB-220694 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE18	Cust: R 9316 JRef: 1XIO93160002 T252 DrwNo: 139.22.0903.10978 / NDW 05/19/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *-PLF						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in	loc L/def L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL):	0.000 A 999 360	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL):	0.000 A 999 240	C*	130	/-	/-	/61	/6	/26
BCDL:	15.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL):	0.000 B - -	Wind reactions based on MWFRS						
Des Ld:	65.00	EXP:	B Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE		HORZ(TL):	0.001 B - -	C Brg Wid = 22.5 Min Req = -						
NCBCLL:	0.00	Mean Height:	21.78 ft			Creep Factor: 2.0								
Soffit:	2.00	TCDL:	5.0 psf			Max TC CSI: 0.053		Bearing D is a rigid surface.						
Load Duration:	1.15	BCDL:	3.0 psf			Max BC CSI: 0.046		Members not listed have forces less than 375#						
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2			Max Web CSI: 0.041								
		C&C Dist a:	3.00 ft			VIEW Ver: 21.02.00.1005.17								
		Loc. from endwall:	Any											
		GCp:	0.18											
		Wind Duration:	1.60											

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Truss must be installed as shown with top chord up.



05/19/2022

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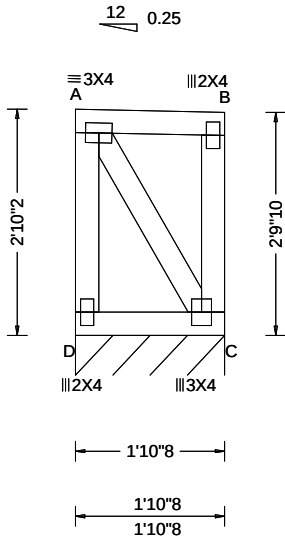
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 10

SEQN: 36770 / FROM:	MONO Ply: 1 Qty: 18	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE19	Cust: R 9316 JRef:1XIO93160002 T253 DrwNo: 139.22.0903.10618 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.82 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/26
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



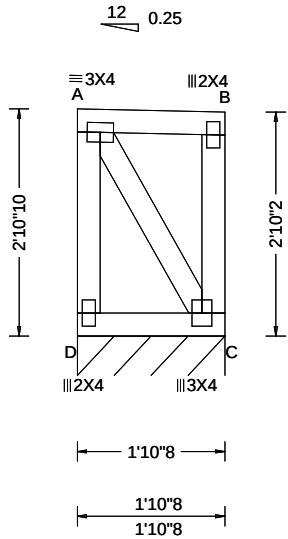
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Building 10

SEQN: 36771 / FROM:	MONO Ply: 1 Qty: 5	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE20	Cust: R 9316 JRef:1XIO93160002 T254 DrwNo: 139.22.0903.09728 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.044 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/27
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

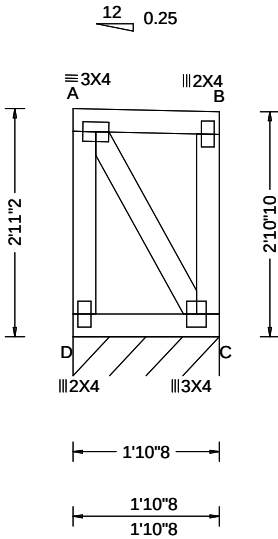


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Building 10

SEQN: 36772 / FROM:	MONO Ply: 1 Qty: 5	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE21	Cust: R 9316 JRef:1XIO93160002 T255 DrwNo: 139.22.0903.10921 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.046 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/28
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

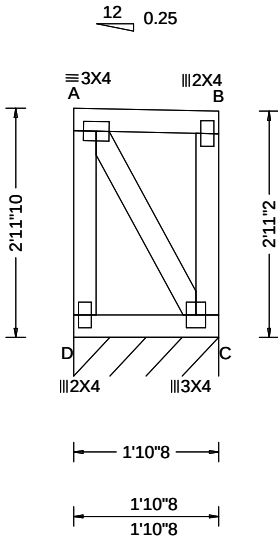


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Building 10

SEQN: 36773 / FROM:	MONO Ply: 1 Qty: 4	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE22	Cust: R 9316 JRef:1XIO93160002 T256 DrwNo: 139.22.0903.17050 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.95 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.047 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/28
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



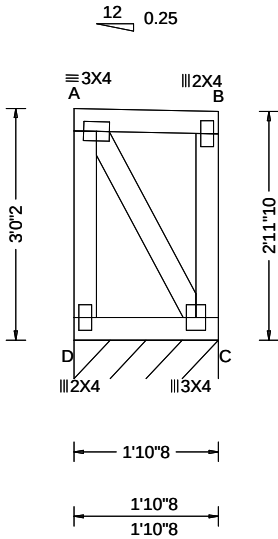
05/19/2022

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Building 10

SEQN: 36774 / FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE23	Cust: R 9316 JRef:1XIO93160002 T257 DrwNo: 139.22.0903.15108 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.049 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/29
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

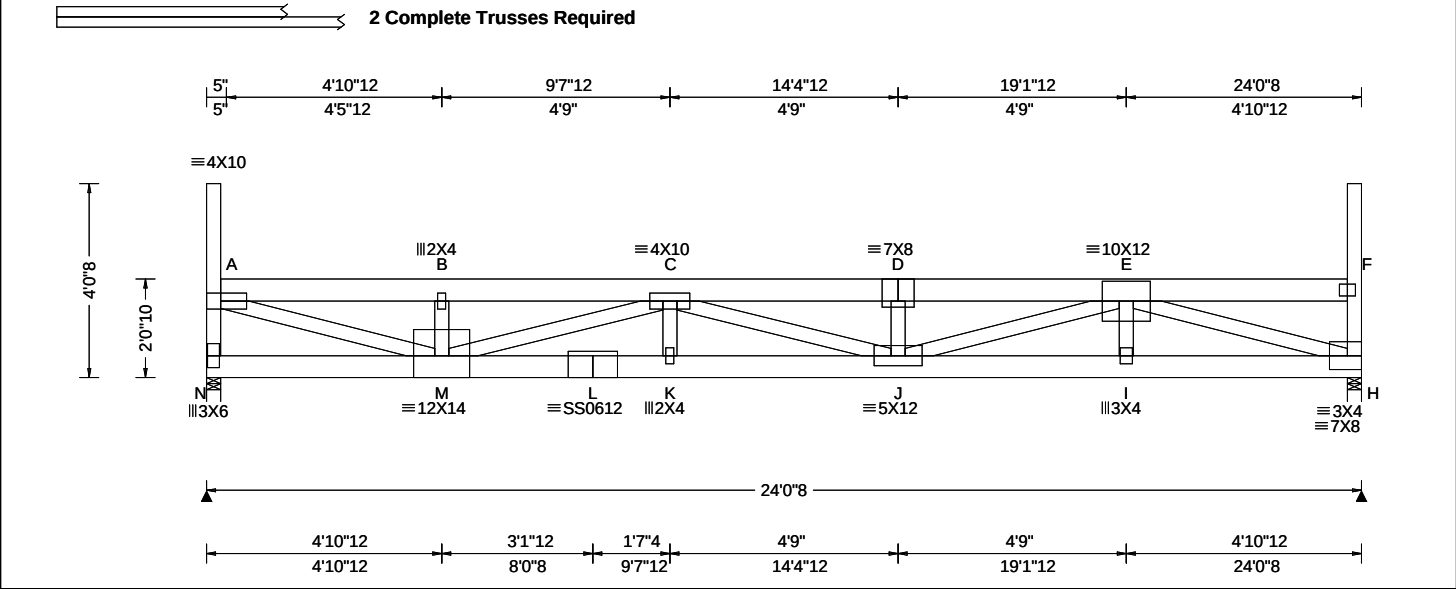
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 36780 / FROM:	FLAT Ply: 2 Qty: 11	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T32	Cust: R 9316 JRef:1XIO93160002 T25 / DrwNo: 139.22.0903.14181 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.258 D 999 360 VERT(CL): 0.479 D 601 240 HORZ(LL): 0.039 H - - HORZ(TL): 0.073 H - - Creep Factor: 2.0 Max TC CSI: 0.228 Max BC CSI: 0.646 Max Web CSI: 0.891 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 2493 -/- /- /397 -/ H 2484 -/- /- /387 -/ Wind reactions based on MWFRS N Brg Wid = 3.5 Min Req = 2.0 (Truss) H Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 520 -3179 C - D 755 -4648 B - C 519 -3171 D - E 755 -4648

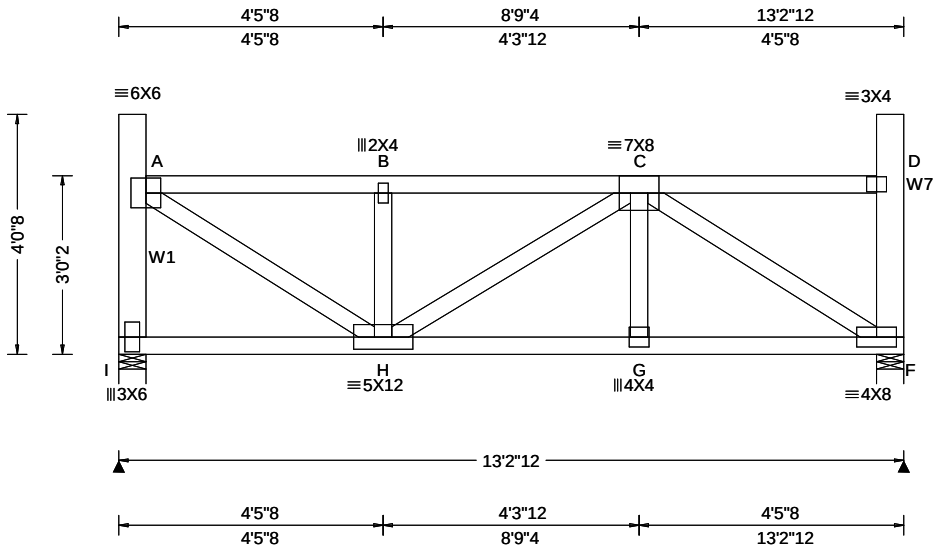
Lumber Top chord: 2x6 SPF 1650F-1.5E; Bot chord: 2x6 SPF 1650F-1.5E; Webs: 2x4 SPF #1/#2; Nailnote Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @10.00" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting. Special Loads ----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 70 plf at 0.29 to 70 plf at 23.75 BC: From 60 plf at 0.00 to 60 plf at 24.04 BC: 173 lb Conc. Load at 1.98, 3.98, 7.98, 9.98 11.98,13.98,21.98 BC: 170 lb Conc. Load at 5.98,15.98,17.98,19.98 Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.99 34.38 4.14 23.75 0.00 23.46 1.99 34.38 4.14 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load. Purlins The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.	Wind Wind loads and reactions based on MWFRS. End verticals exposed to wind pressure. Deflection meets L/360. Deflection Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof. Additional Notes Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 4648 -761 J - I 3156 -506 L - K 4648 -761 I - H 3156 -506 K - J 4648 -761 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - A 176 -1116 J - E 1573 -263 A - M 3202 -525 E - H 525 -3276 M - C 256 -1558
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05/19/2022

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SEQN: 36776 / FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T09	Cust: R 9316 JRef:1XIO93160002 T14 / DrwNo: 139.22.0903.19917 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.038 B 999 360 VERT(CL): 0.071 B 999 240 HORZ(LL): 0.012 A - - HORZ(TL): 0.022 A - - Creep Factor: 2.0 Max TC CSI: 0.313 Max BC CSI: 0.556 Max Web CSI: 0.834 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 1464 -/- /- /155 -/ F 1371 -/- /- /118 -/ Wind reactions based on MWFRS I Brg Wid = 5.5 Min Req = 1.9 (Truss) F Brg Wid = 5.5 Min Req = 1.7 (Truss) Bearings I & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 174 -1777 B - C 173 -1772

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 60 plf at 0.00 to 60 plf at 13.23
BC: 204 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 183 lb Conc. Load at 7.17, 9.17

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

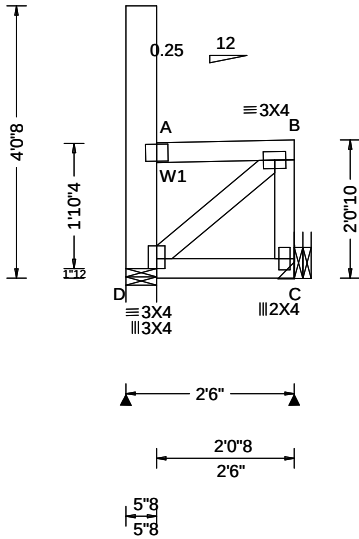


05/19/2022

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SEQN: 36701 / FROM: JRQ	MONO Ply: 1 Qty: 75	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02A	Cust: R 9316 JRef:1XIO93160002 T26 / DrwNo: 139.22.0903.10243 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	122	/-	/-	/98	/75	/61
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	170	/-	/-	/144	/55	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5		Min Req = 1.5 (Support)			
NCBCLL: 0.00	Mean Height: 21.03 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = -		Min Req = -			
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.102	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.079	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.106							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

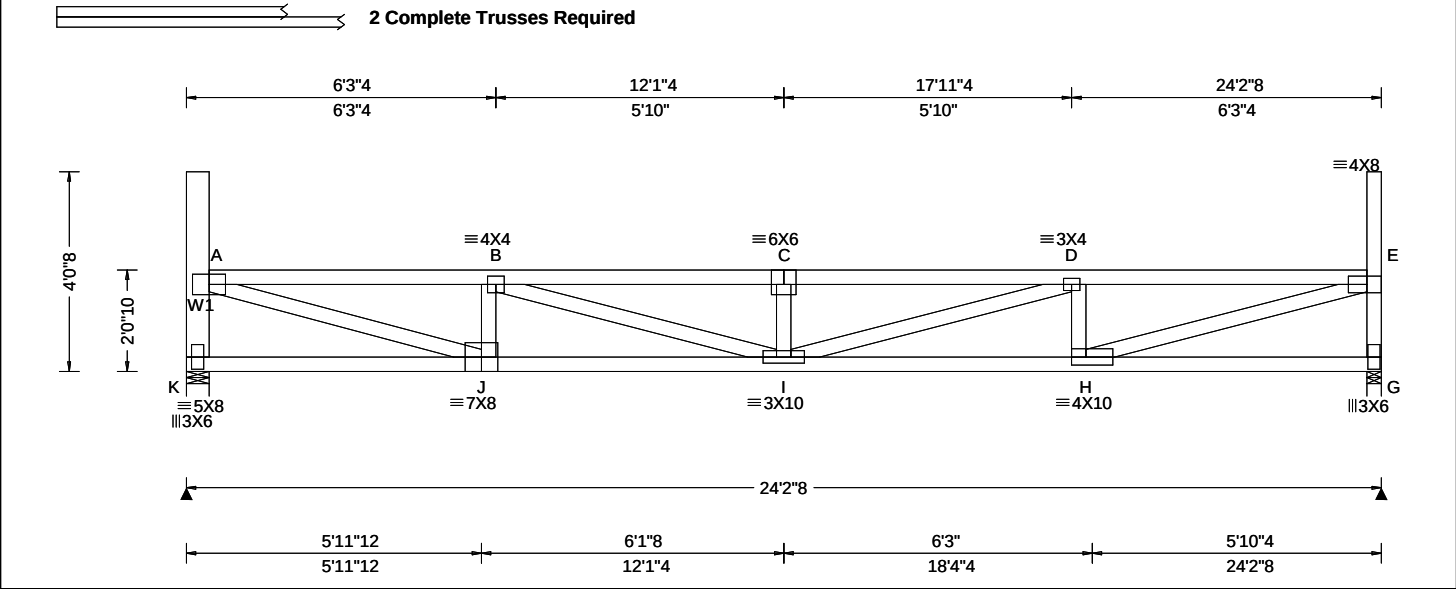


05/19/2022

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SEQN: 36779 FROM: JRQ	FLAT Ply: 2 Qty: 2	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T16	Cust: R 9316 JRef:1XIO93160002 T18 DrwNo: 139.22.0943.38500 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity							
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(LL): 0.268 C 999 360	K	1718	-/-	-/-	-/-	/346	-/-
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	VERT(CL): 0.499 C 581 240	G	1781	-/-	-/-	-/-	/361	-/-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(LL): 0.039 A - -	Wind reactions based on MWFRS							
NCBCLL: 0.00	Mean Height: 21.05 ft	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	HORZ(TL): 0.073 A - -	K Brg Wid = 5.5 Min Req = 1.5 (Truss)							
Soffit: 2.00	TCDL: 5.0 psf		Creep Factor: 2.0	G Brg Wid = 3.5 Min Req = 1.5 (Truss)							
Load Duration: 1.15	BCDL: 3.0 psf		Max TC CSI: 0.426	Bearings K & G are a rigid surface.							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max BC CSI: 0.963	Members not listed have forces less than 375#							
	C&C Dist a: 3.00 ft		Max Web CSI: 0.610	Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: Any			Chords		Tens.Comp.		Chords		Tens. Comp.	
	GCpi: 0.18			A - B	505	- 2434	C - D	683	- 3221		
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17	B - C	683	- 3221	D - E	525	- 2462		

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 23.92
BC: From 30 plf at 0.00 to 30 plf at 22.06
BC: From 60 plf at 22.06 to 60 plf at 24.21
BC: 170 lb Conc. Load at 2.06, 4.06, 6.06, 8.06, 10.06, 18.06
BC: 173 lb Conc. Load at 12.06, 14.06, 16.06, 20.06, 22.06

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
J - I	2479 - 512	I - H	2505 - 531

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
K - A	149 - 745	I - D	747 - 159
A - J	2406 - 499	H - E	2484 - 531
B - I	775 - 179	E - G	156 - 762

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.99 34.38 4.14
23.92 0.00 23.46 1.99 34.38 4.14
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022

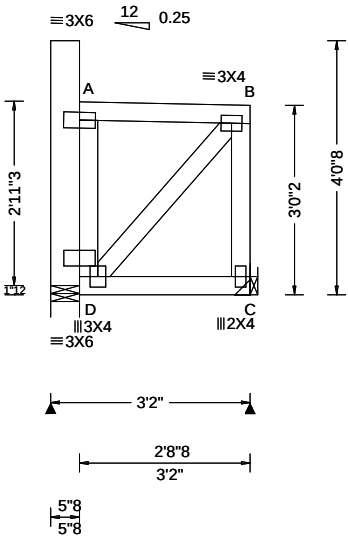
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36744 / FROM:	MONO Ply: 1 Qty: 16	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48A	Cust: R 9316 JRef:1XIO93160002 T13 / DrwNo: 139.22.0903.19716 / NDW 05/19/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.000 D 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.001 D 999 240		D	170	/-	/-	/79	/9	/1
		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.000 C - -		C	183	/-	/-	/85	/7	/-
		EXP: B Kzt: NA		Building Code: IBC 2018		HORZ(TL): 0.000 C - -		Wind reactions based on MWFRS						
		Mean Height: 22.04 ft				Creep Factor: 2.0		D Brg Wid = 5.5 Min Req = 1.5 (Support)						
		TCDL: 5.0 psf		TPI Std: 2014		Max TC CSI: 0.120		C Brg Wid = - Min Req = -						
		BCDL: 3.0 psf		Rep Fac: Yes		Max BC CSI: 0.103		Bearing D is a rigid surface.						
		MWFRS Parallel Dist: 0 to h/2		FT/RT:20(0)/10(0)		Max Web CSI: 0.023		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft		Plate Type(s):										
		Loc. from endwall: Any		WAVE										
		GCpi: 0.18												
		Wind Duration: 1.60				VIEW Ver: 21.02.00.1005.17								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11938.37" if used)

Additional Notes

Truss must be installed as shown with top chord up.



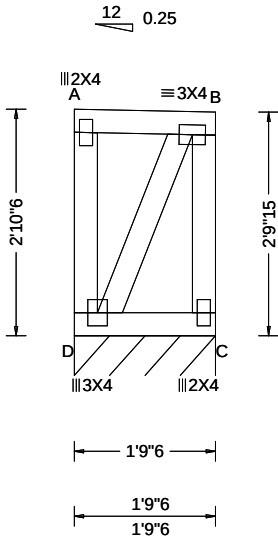
05/19/2022

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Building 10

SEQN: 36750 FROM: JRQ	MONO Ply: 1 Qty: 2	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T54	Cust: R 9316 JRef:1XIO93160002 T20 DrwNo: 139.22.0944.15207 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.99 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.048 Max BC CSI: 0.041 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/28
				Wind reactions based on MWFRS						
				C Brg Wid = 21.4 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

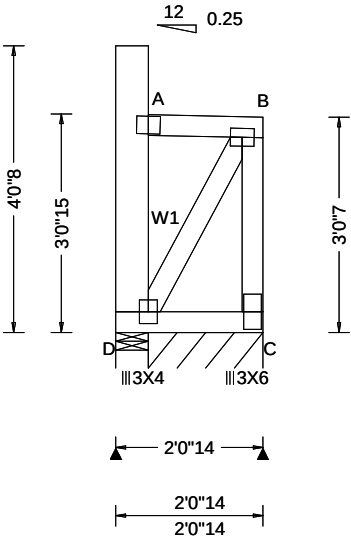


05/19/2022

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Building 10

SEQN: 36751 FROM: JRQ	GABL Ply: 1 Qty: 2	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T55	Cust: R 9316 JRef:1XIO93160002 T17 DrwNo: 139.22.0944.24893 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): -0.001 D 999 360	D	119	/-	/-	/135	/102	/89
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): -0.001 D 999 240	C*	73	/-	/-	/98	/54	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.003 A - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 22.05 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = 19.4 Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Bearings D & D are a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.048	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: Yes	Max Web CSI: 0.059							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: not in 29.00 ft	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



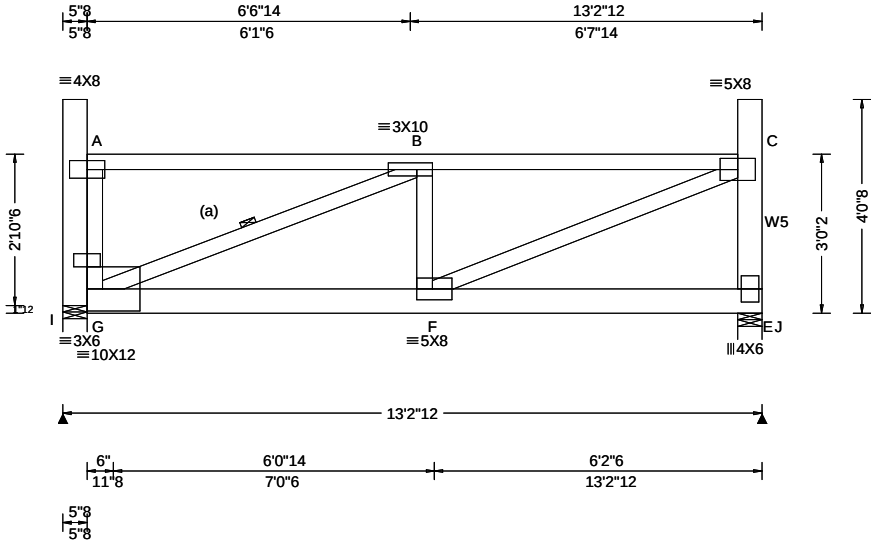
05/19/2022

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Building 10

SEQN: 36777 / FROM:	MONO Ply: 1 Qty: 3	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T09A	Cust: R 9316 JRef:1XIO93160002 T30 / DrwNo: 139.22.0903.19335 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity							
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(LL): 0.057 F	999	360					
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	VERT(CL): 0.106 F	999	240					
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(LL): 0.008 A	-	-						
NCBCLL: 0.00	Mean Height: 22.01 ft	Building Code:	HORZ(TL): 0.015 A	-	-						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Creep Factor: 2.0								
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max TC CSI: 0.779								
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max BC CSI: 0.649								
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Max Web CSI: 0.515								
	Loc. from endwall: Any	Plate Type(s):									
	GCpi: 0.18										
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17								
				Wind reactions based on MWFRS							
				I Brg Wid = 5.5 Min Req = 1.5 (Support)							
				J Brg Wid = 5.5 Min Req = 2.1 (Truss)							
				Bearings I & J are a rigid surface.							
				Members not listed have forces less than 375#							
				Maximum Top Chord Forces Per Ply (lbs)							
				Chords Tens.Comp.							
				B - C 109 - 2065							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Additional Notes
Truss must be installed as shown with top chord up.

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 12.31
BC: From 60 plf at 0.00 to 60 plf at 12.77
BC: 183 lb Conc. Load at 0.71, 2.71, 4.71, 6.71, 8.71
BC: 204 lb Conc. Load at 10.71

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11970.89" if used)



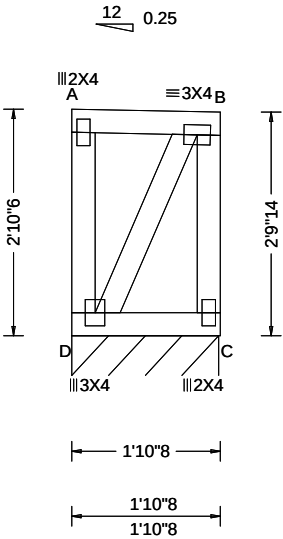
05/19/2022

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Building 10

SEQN: 36749 / FROM: JRQ	MONO Ply: 1 Qty: 1	Job Number: JB-220694 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T53	Cust: R 9316 JRef:1XIO93160002 T8 / DrwNo: 139.22.0903.19297 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.99 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.000 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				D*	131	/-	/-	/61	/6	/27
				Wind reactions based on MWFRS D Brg Wid = 22.2 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



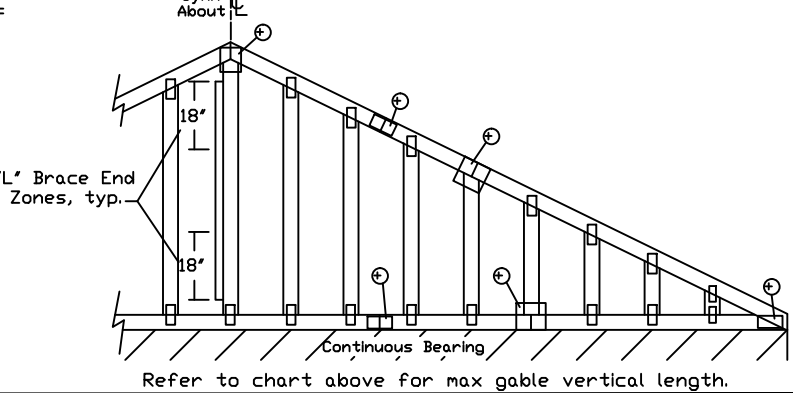
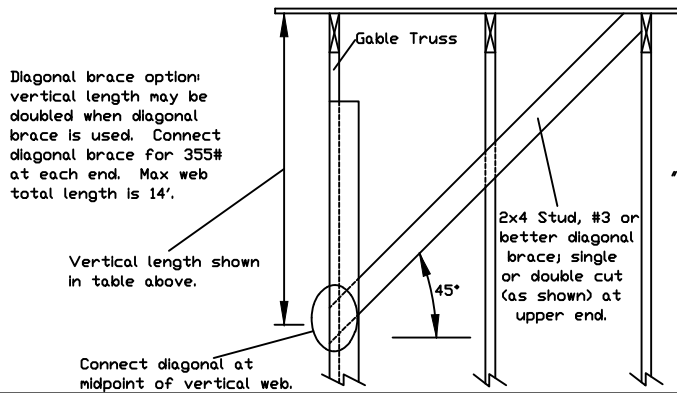
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Gable Stud Reinforcement Detail
ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.		SPF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
		DFL	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
16" o.c.		SPF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		DFL	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.		SPF	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"



Bracing Group Species and Grades:			
Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	
Group B:			
Hem-Fir			
#1 & Btr		#1	
Douglas Fir-Larch			
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).
***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:
Wind Load deflection criterion is L/240.
Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.
* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
** For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.
'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.



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ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

REF	ASCE7-16-GAB11530
DATE	01/26/2018
DRWG	A11530ENC160118
MAX. TOT. LD. 60 PSF	
MAX. SPACING 24.0'	

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

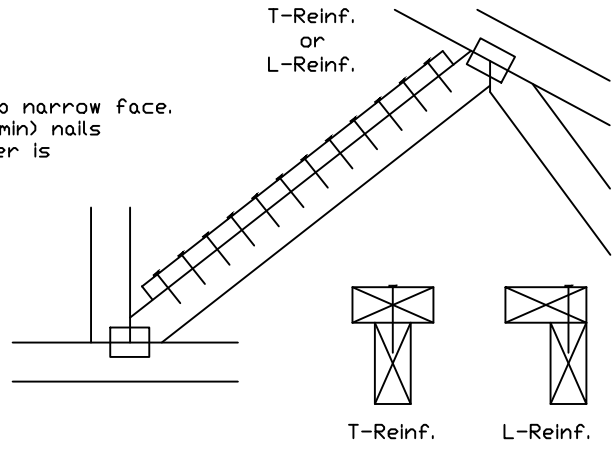
Web Member Size	Specified CLR Restraint	Alternative Reinforcement	
		T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(✕)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(✕)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(✕) Center scab on wide face of web. Apply (1) scab to each face of web.

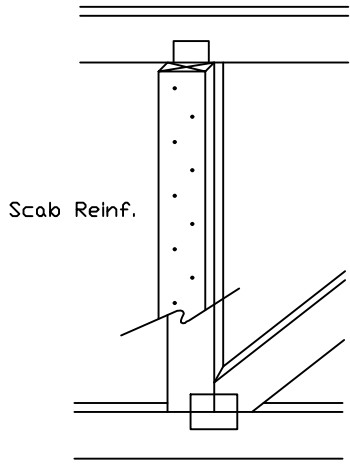
T-Reinforcement
or
L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



ALPINE
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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

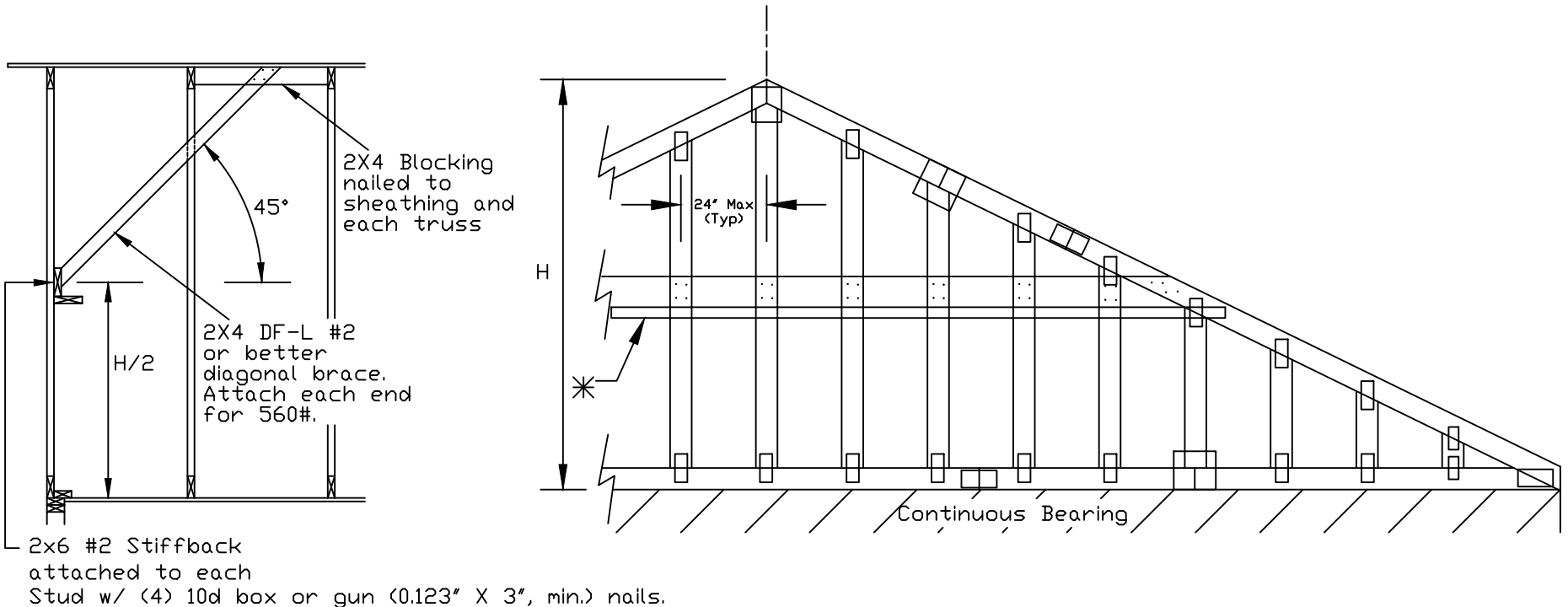
120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail
for lumber, plates, and other information not shown
on this detail.

Nails: 10d box or gun (0.128"x3",min) nails.

- H Less than 4'6" - no stud bracing required
- H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback
to roof diaphragm every 6'0" (see detail below or
refer to DRWG A12030ENC160118).
- H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace
to roof diaphragm every 4'0" (see detail below or
refer to DRWG A12030ENC160118).
- * Optional 2x L-reinforcement attached
to stiffback with 10d box or gun
(0.128" x 3", min.) nails @ 6" o.c.



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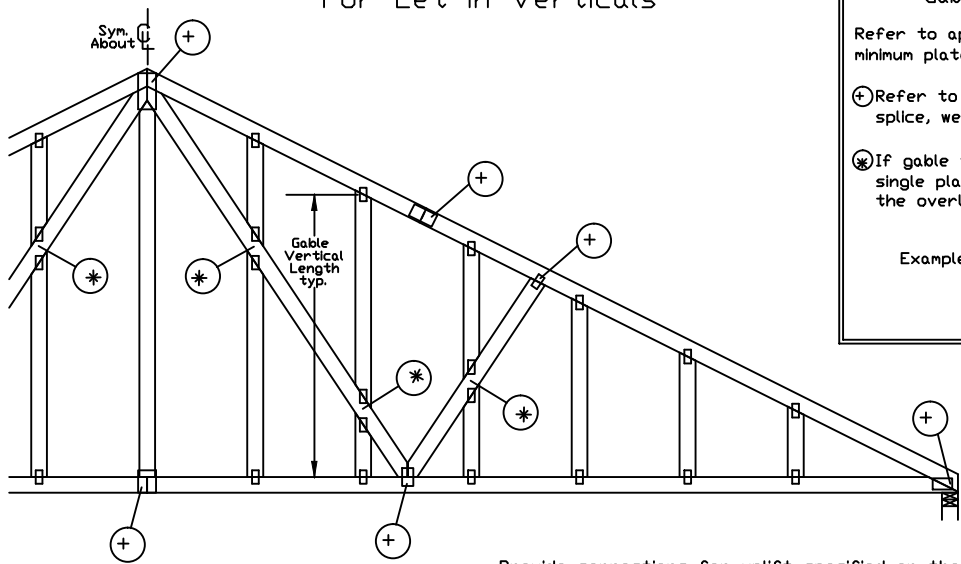
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MAX. TOT. LD. 60 PSF

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

Gable Detail For Let-in Verticals



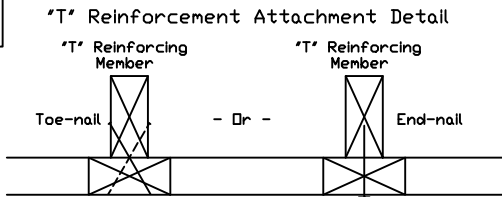
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148"x 3",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x 3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

- ASCE 7-05 Gable Detail Drawings
- A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014
- ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
- A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.

To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24' o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"



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MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118
MAX. TOT. LD. 60 PSF	
DUR. FAC. ANY	
MAX. SPACING 24.0"	



Structural Engineers – Since 1957

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

BOB D. CAMPBELL & CO., INC.

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

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 10 Truss	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

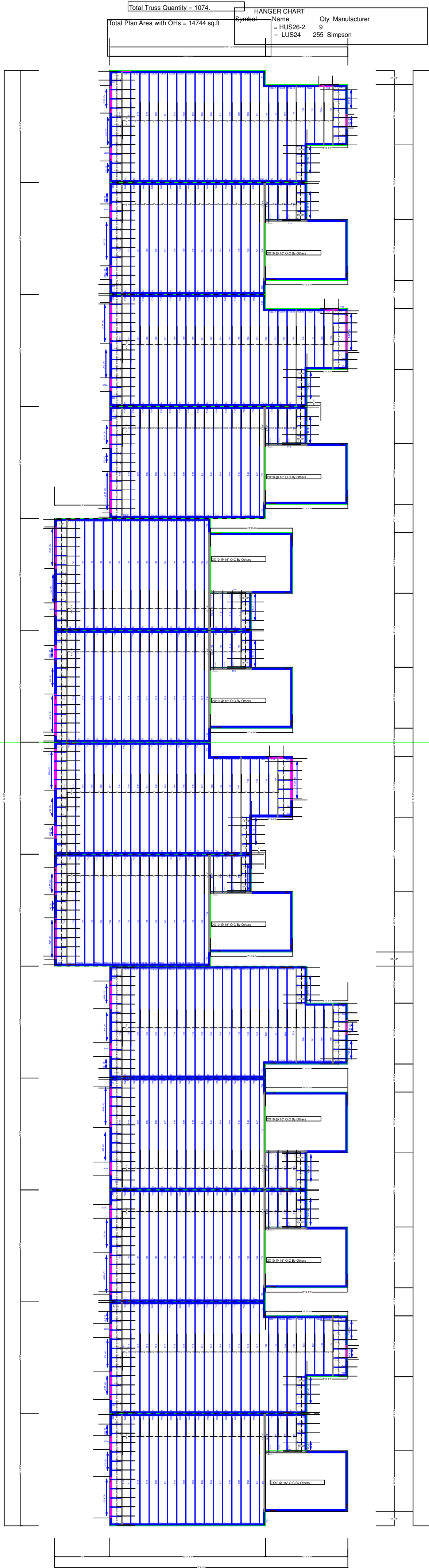
BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

GROUP 10 ROOF LAYOUT



SHOP DRAWING REVIEW

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

☐ APPROVED

☐ FURNISH AS CORRECTED

☐ REJECTED, REVISE & RESUBMIT

☐ RETURNED NOT REVIEWED

☒ REVIEWED

RETURN TO DEVIATIONS IN ATTACHED COMMENTARY

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

DATE: 05/30/2022 BY: CB

REVIEWED ☒

DATE RECIEVED:

REVIEWED AS NOTED ☐

DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐

REVIEWED BY: michaela.silva

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

TRI

ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

mill Creek

3053 S. Halsewood Rd.
Halsewood, MO 63055
(316) 830-6108

Job Name: McCambridge Brothers Construction

Designer: Juan R Quiroz
Reference #: JB-220694

Date: 5/13/2022

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss



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Kansas City, MO 64111
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DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 11 Truss	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 11 Floor Layout

Total Truss Quantity = 180.

Total Plan Area with OHs = 4292 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	126	Simpson
=	THA422-2	4	Simpson

SHOP DRAWING REVIEW

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

☐ APPROVED

☐ FURNISH AS CORRECTED

☐ REJECTED, REVISE & RESUBMIT

☐ RETURNED NOT REVIEWED

☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.

STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB

REVIEWED ☒ DATE RECEIVED: 6/6/2022

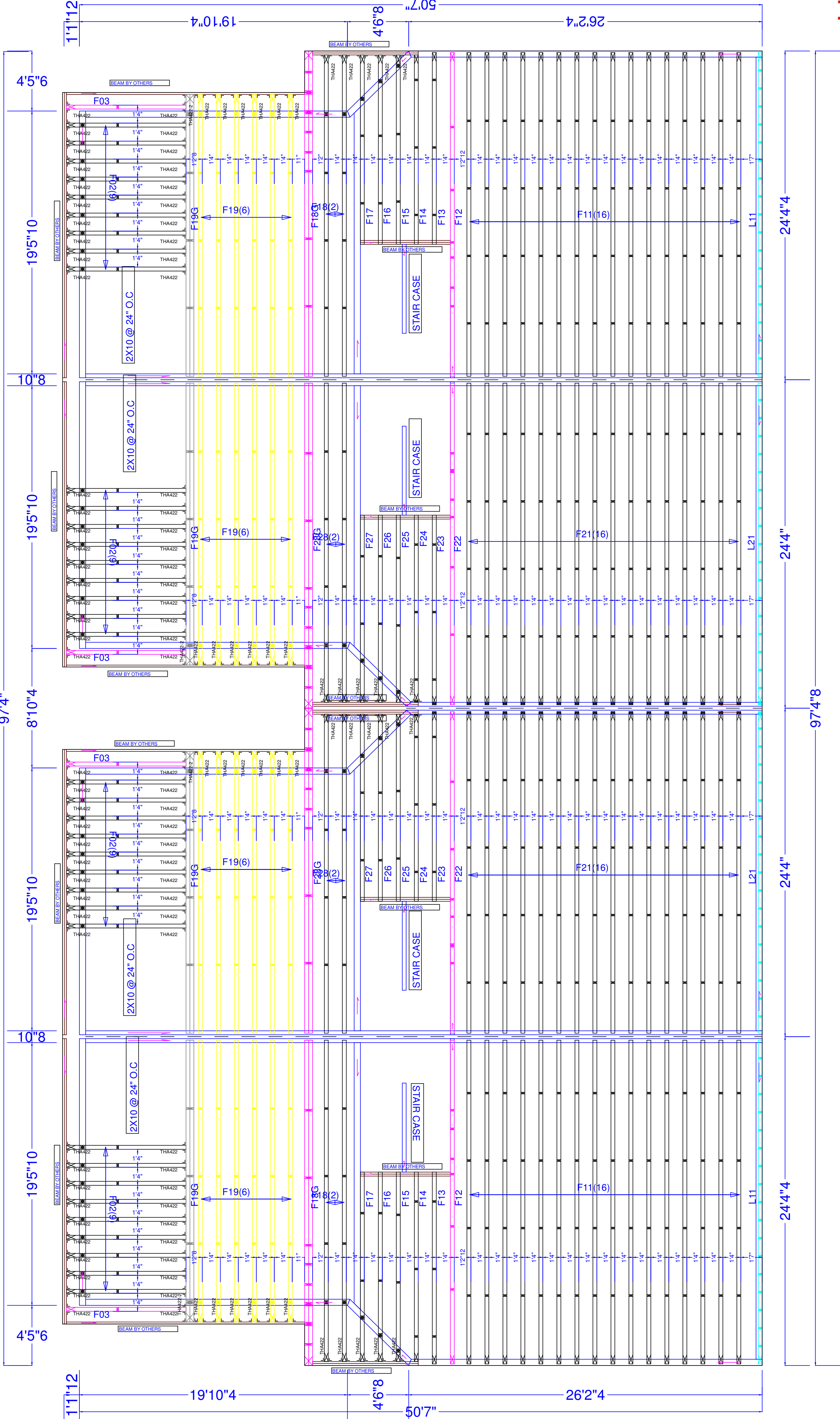
REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com



DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Right End of Truss



Job Name: McCambridge Brothers Construction		Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC
Designer: Juan R Quiroz		Address: 2100 NW Lowenstein Dr Lee's Summit MO
Reference #: JB-220692	Date: 3/17/2022	



Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone: (800)326-4102 (314)344-9121
alpineitw.com

03/17/2022

REVIEWED ☒ DATE RECEIVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



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SHOP DRAWING REVIEW

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NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/30/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220692
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00 JRef #: 1XdX93160008
Wind Standard: ASCE716 Wind Speed (mph): 0	Design Loading (psf): 75.00
Building Type:	

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	076.22.1322.47094	F02
3	076.22.1322.49359	F11
5	076.22.1322.48644	F13
7	076.22.1322.48109	F15
9	076.22.1322.49575	F17
11	076.22.1322.49165	F18G
13	076.22.1322.49939	F19G
15	076.22.1322.49587	F22
17	076.22.1322.47157	F24
19	076.22.1322.47778	F26
21	076.22.1322.47743	F28
23	076.22.1322.48736	L11
25	CNSY42PL0118	
27	LSCSYX2A1014	

Item	Drawing Number	Truss
2	076.22.1322.48370	F03
4	076.22.1322.49923	F12
6	076.22.1322.47901	F14
8	076.22.1322.49301	F16
10	076.22.1322.47363	F18
12	076.22.1322.49959	F19
14	076.22.1322.46965	F21
16	076.22.1322.47915	F23
18	076.22.1322.48996	F25
20	076.22.1322.47209	F27
22	076.22.1322.46962	F28G
24	076.22.1322.49070	L21
26	DEFLCAMB1014	
28	STRBRI1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

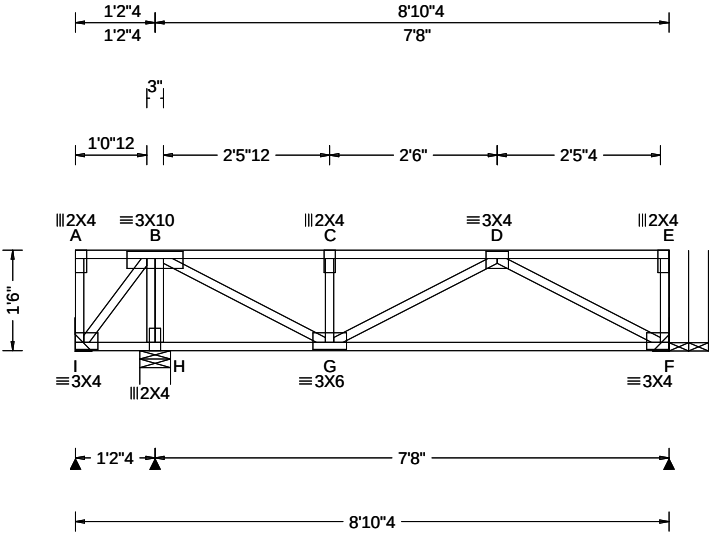
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

SEQN: 96319 / FROM:	SY42 Qty: 36	Ply: 1 Qty: 36	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F02	Cust: R 9316 JRef:1XdX93160008 T6 DrwNo: 076.22.1322.47094 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.018 C 999 480 VERT(CL): 0.034 C 999 360 HORZ(LL): 0.002 F - - HORZ(TL): 0.004 F - - Creep Factor: 2.0 Max TC CSI: 0.299 Max BC CSI: 0.301 Max Web CSI: 0.162 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL I 28 /-43 /- /- /- /- H 525 /- /- /- /- /- F 372 /- /- /- /- /- I Brg Wid = - Min Req = - H Brg Wid = 5.5 Min Req = 1.5 (Truss) F Brg Wid = - Min Req = - Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;
Additional Notes
Truss must be installed as shown with top chord up.

B - C	0	-485	C - D	0	-485
Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp.					
G - F	473	0			
Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp.					
B - H	0	-499	D - F	0	-537
B - G	576	0			

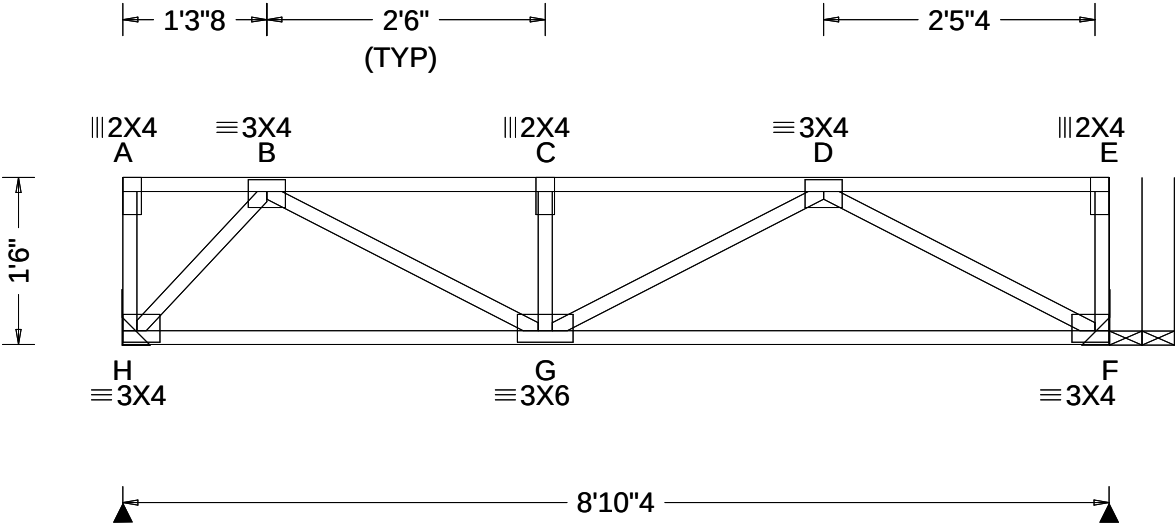


03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 96321 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F03	Cust: R 9316 JRef:1XdX93160008 T7 / DrwNo: 076.22.1322.48370 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.024 C 999 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.046 C 999 360		H	443	/-	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): 0.004 B - -		F	443	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE		HORZ(TL): 0.008 B - -		H Brg Wid = -		Min Req = -				
NCBCLL: 0.00		Mean Height: NA ft				Creep Factor: 2.0		F Brg Wid = -		Min Req = -				
Soffit: 0.00		TCDL: NA psf				Max TC CSI: 0.298								
Load Duration: 1.00		BCDL: NA psf				Max BC CSI: 0.324								
Spacing: 16.0 "		MWFRS Parallel Dist: NA				Max Web CSI: 0.141		Members not listed have forces less than 375#						
		C&C Dist a: NA ft						Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall: NA						Chords Tens.Comp. Chords Tens. Comp.						
		I: NA GCpi: NA						B - C 0 -747 C - D 0 -747						
		Wind Duration: NA						Maximum Bot Chord Forces Per Ply (lbs)						

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



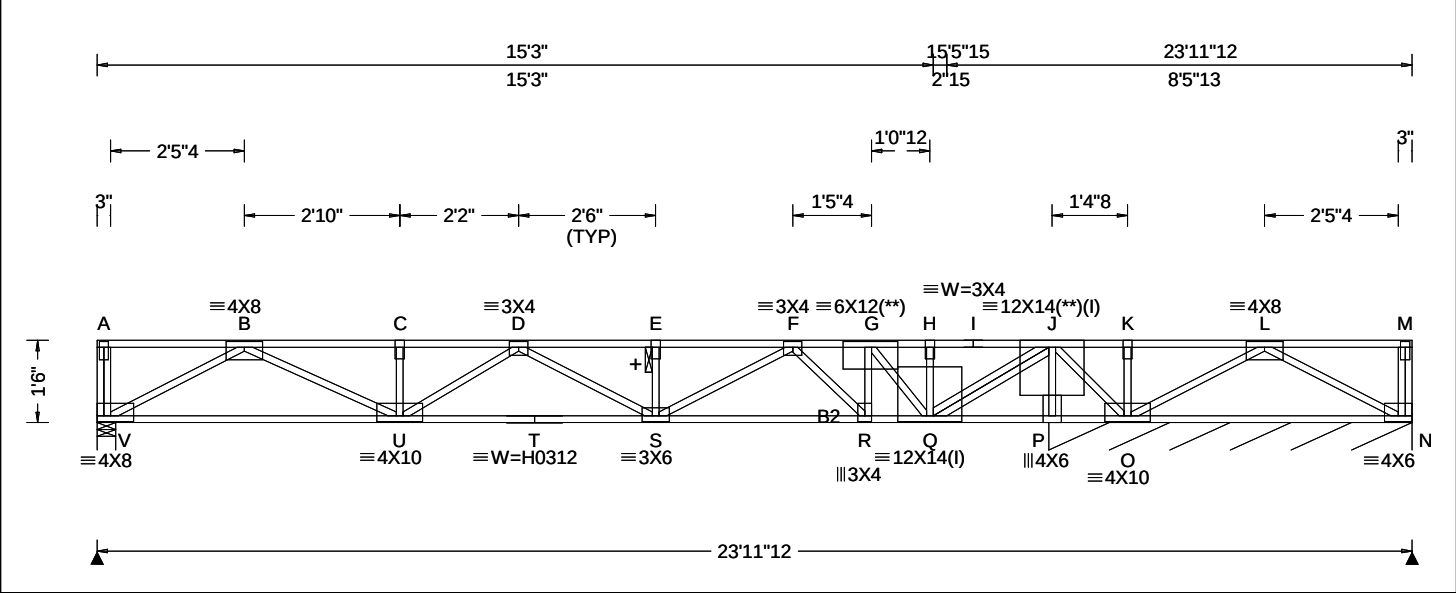
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBCA: sbaccomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 96379 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F12	Cust: R 9316 JRef:1XdX93160008 T1 / DrwNo: 076.22.1322.49923 CAT / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.201 E 999 480 VERT(CL): 0.377 E 545 360 HORZ(LL): 0.029 B - - HORZ(TL): 0.054 B - - Creep Factor: 2.0 Max TC CSI: 0.946 Max BC CSI: 0.960 Max Web CSI: 0.568 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL V 961 -/-/-/-/-/- N* 443 -/-/-/-/-/- N -/304 V Brg Wid = 4.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2615 G - H 0 -818 C - D 0 -2615 H - I 0 -818 D - E 0 -3202 I - J 0 -818 E - F 0 -3202 J - K 2031 0 F - G 0 -2426 K - L 2031 0

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads
----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes
All plates are 2X4 except as noted.
(** 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

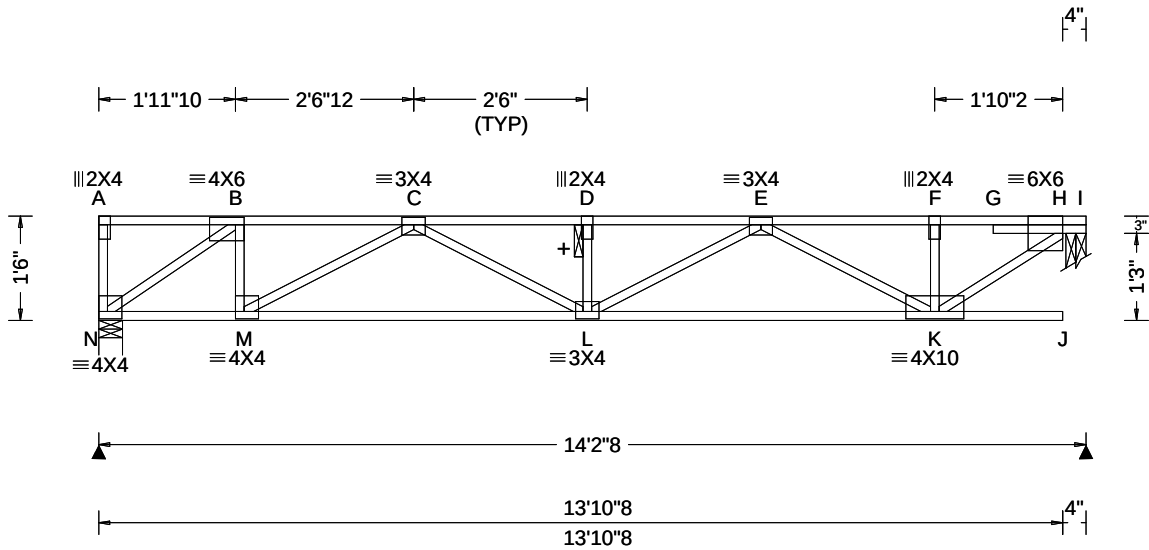
Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.



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		Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. V - B 0 -1680 G - Q 0 -2558 B - U 1283 0 Q - J 4025 0 U - D 0 -526 J - P 0 -2889 S - F 401 0 J - O 816 0 F - R 0 -615 O - L 0 -1423 R - G 488 0 L - N 897 0	



SEQN: 96329 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F13	Cust: R 9316 JRef:1XdX93160008 T23 / DrwNo: 076.22.1322.48644 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.096 D 999 480 VERT(CL): 0.179 D 942 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.620 Max BC CSI: 0.537 Max Web CSI: 0.329 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 702 /- /- /- /- /- H 714 /- /- /- /- /- N Brg Wid = 4.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -943 E - F 0 -943 C - D 0 -1836 F - H 0 -942 D - E 0 -1836

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	905	L - K	1574
M - L	1582		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1104	E - K	0 -721
B - M	416	K - H	1166
M - C	0 -734		0



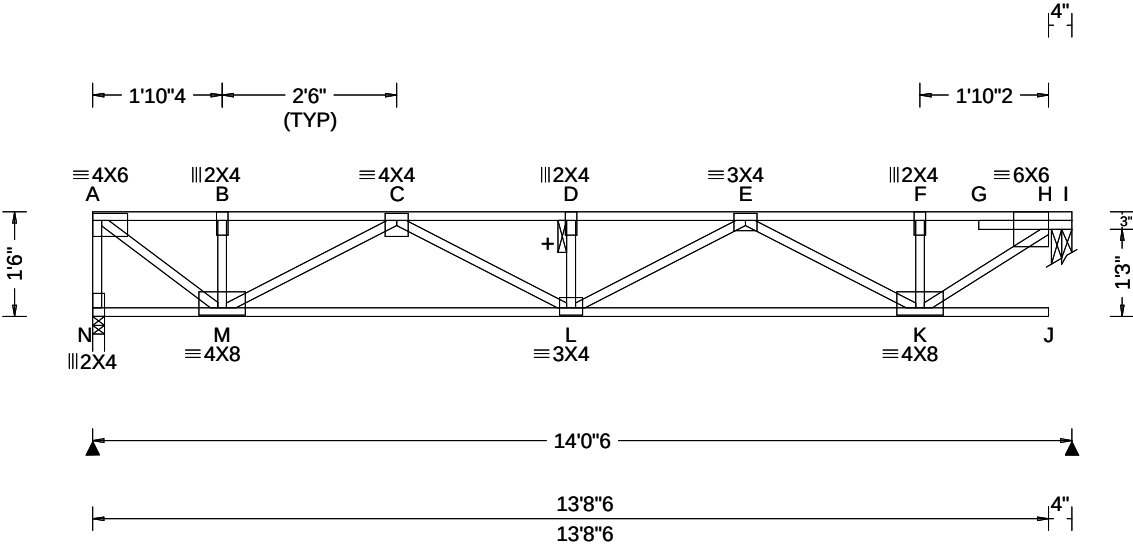
03/17/2022

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Building 11

SEQN: 96331 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F14	Cust: R 9316 JRef:1XdX93160008 T15 / DrwNo: 076.22.1322.47901 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.093 D 999 480 VERT(CL): 0.174 D 955 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.612 Max BC CSI: 0.524 Max Web CSI: 0.324 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 693 /- /- /- /- /- H 706 /- /- /- /- /- N Brg Wid = 2.0 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -849 D - E 0 -1791 B - C 0 -849 E - F 0 -929 C - D 0 -1791 F - H 0 -929

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1520 0	L - K	1546 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -690	E - K	0 -703
A - M	1057 0	K - H	1150 0
M - C	0 -766		



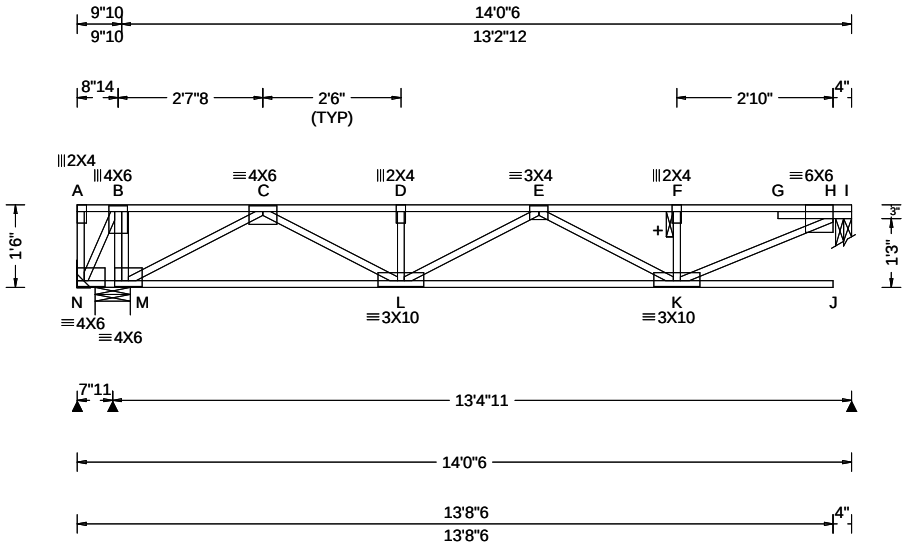
03/17/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

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AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96333 / FROM:	SY42 Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F15	Cust: R 9316 JRef:1XdX93160008 T26 / DrwNo: 076.22.1322.48109 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.200 J 780 480 VERT(CL): 0.320 J 487 360 HORZ(LL): 0.011 C - - HORZ(TL): 0.020 C - - Creep Factor: 2.0 Max TC CSI: 0.961 Max BC CSI: 0.588 Max Web CSI: 0.339 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-708 /- /- /- /- N 1480 /- /- /- /- /- H 618 /- /- /- /- /- N Brg Wid = - Min Req = - N Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 SPF #1/#2; Bot chord: 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2; Deflection Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations. Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less. Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 600 0 L - K 1318 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 685 0 C - L 693 0 B - M 0 -840 K - H 1201 0 M - C 0 -1141
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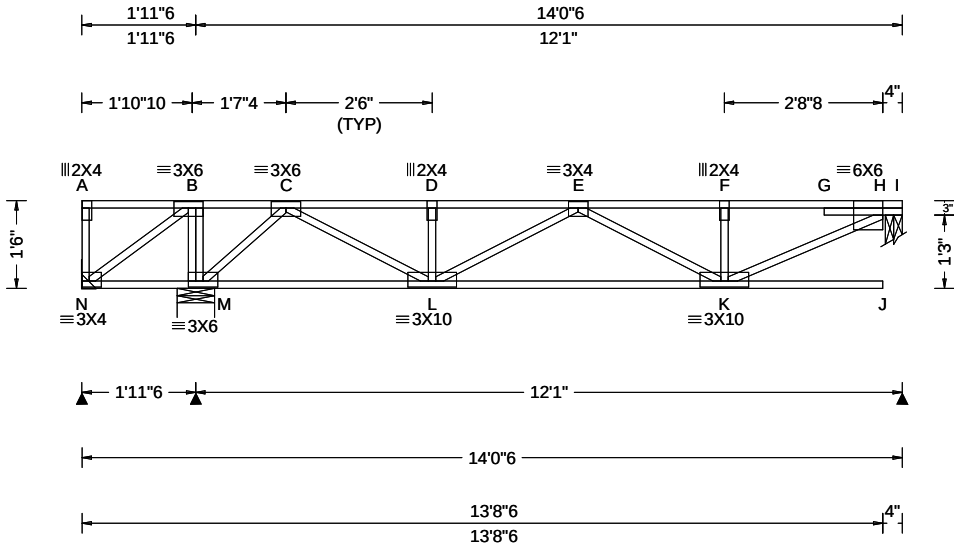


03/17/2022

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Building 11

SEQN: 96335 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F16	Cust: R 9316 JRef:1XdX93160008 T33 / DrwNo: 076.22.1322.49301 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.159 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.283 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-323 /- /- /- /- M 1131 /- /- /- /- /- I 547 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 SPF #1/#2; Bot chord: 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. N - M 0 -469 L - K 1034 0
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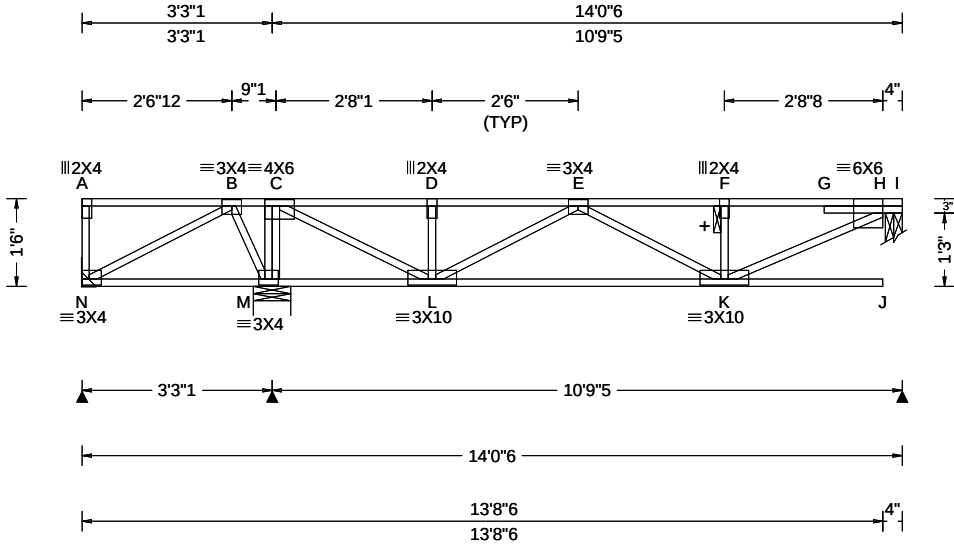
Deflection Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 580 0 C - L 816 0 B - M 0 -512 K - H 1004 0 M - C 0 -842
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Additional Notes See detail STRBRIBR1014 for bracing and bridging recommendations. Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less. Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. Truss must be installed as shown with top chord up.	
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SEQN: 96337 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F17	Cust: R 9316 JRef:1XdX93160008 T20 / DrwNo: 076.22.1322.49575 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/def L/#			Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.147 J 870 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.233 J 550 360			N	57	/-122	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): 0.004 C - -			M	959	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code: IBC 2018			HORZ(TL): 0.007 C - -			I	491	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft					Creep Factor: 2.0			N Brg Wid = - Min Req = -						
Soffit: 0.00		TCDL: NA psf		TPI Std: 2014			Max TC CSI: 0.749			M	Brg Wid = 7.7 Min Req = 1.5 (Truss)					
Load Duration: 1.00		BCDL: NA psf		Rep Fac: Yes			Max BC CSI: 0.437			I	Brg Wid = 3.5 Min Req = 1.5 (Truss)					
Spacing: 16.0 "		MWFRS Parallel Dist: NA		FT/RT:12(0)/10(0)			Max Web CSI: 0.272			Bearings M & H are a rigid surface.						
		C&C Dist a: NA ft		Plate Type(s):						Members not listed have forces less than 375#						
		Loc. from endwall: NA		WAVE			VIEW Ver: 21.02.00.1005.17			Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA								Chords Tens.Comp. Chords Tens. Comp.						
		Wind Duration: NA														

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.			
L - K	818 0			
Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens.	Comp.
M - C	0 - 627	K - H	874	0
C - L	963 0			



03/17/2022

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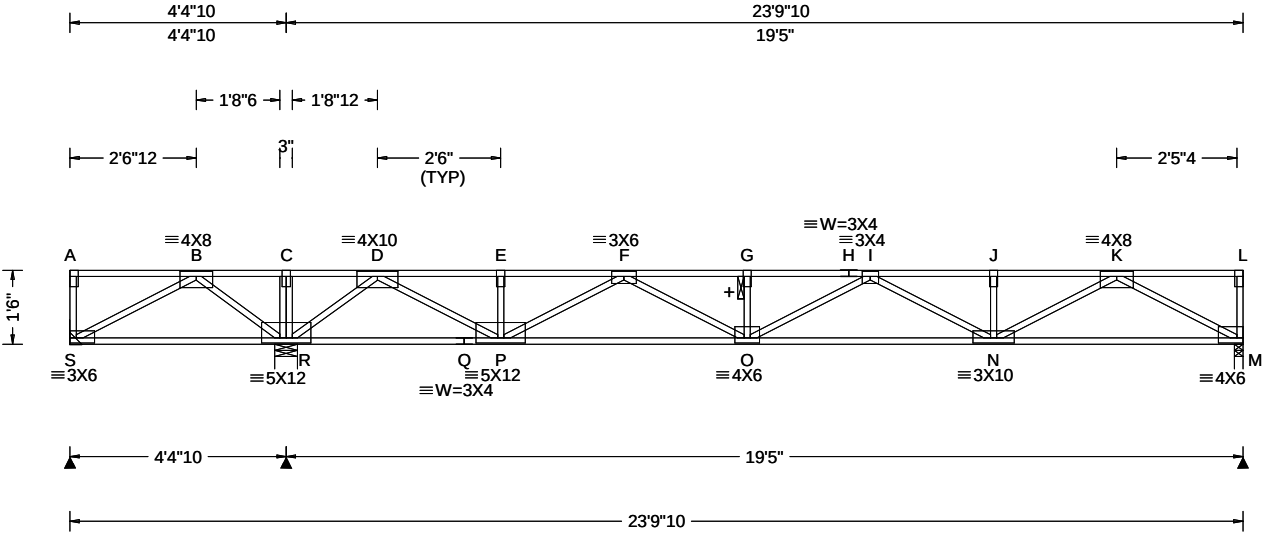
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCEA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96339 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F18	Cust: R 9316 JRef:1XdX93160008 T16 / DrwNo: 076.22.1322.47363 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 G 999 480 VERT(CL): 0.371 G 628 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.796 Max Web CSI: 0.466 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-458 /- /- /- /- R 1886 /- /- /- /- /- M 844 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Negative reaction(s) of -458# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
S - R	0 -955	P - O	1987	0
R - Q	0 -427	O - N	2580	0
Q - P	0 -427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens. Comp.	
S - B	1084	F - O	631	0
B - R	0 -1117	I - N	0	-411
R - D	0 -1648	N - K	991	0
D - P	1653	K - M	0	-1535
P - F	0 -1085			



03/17/2022

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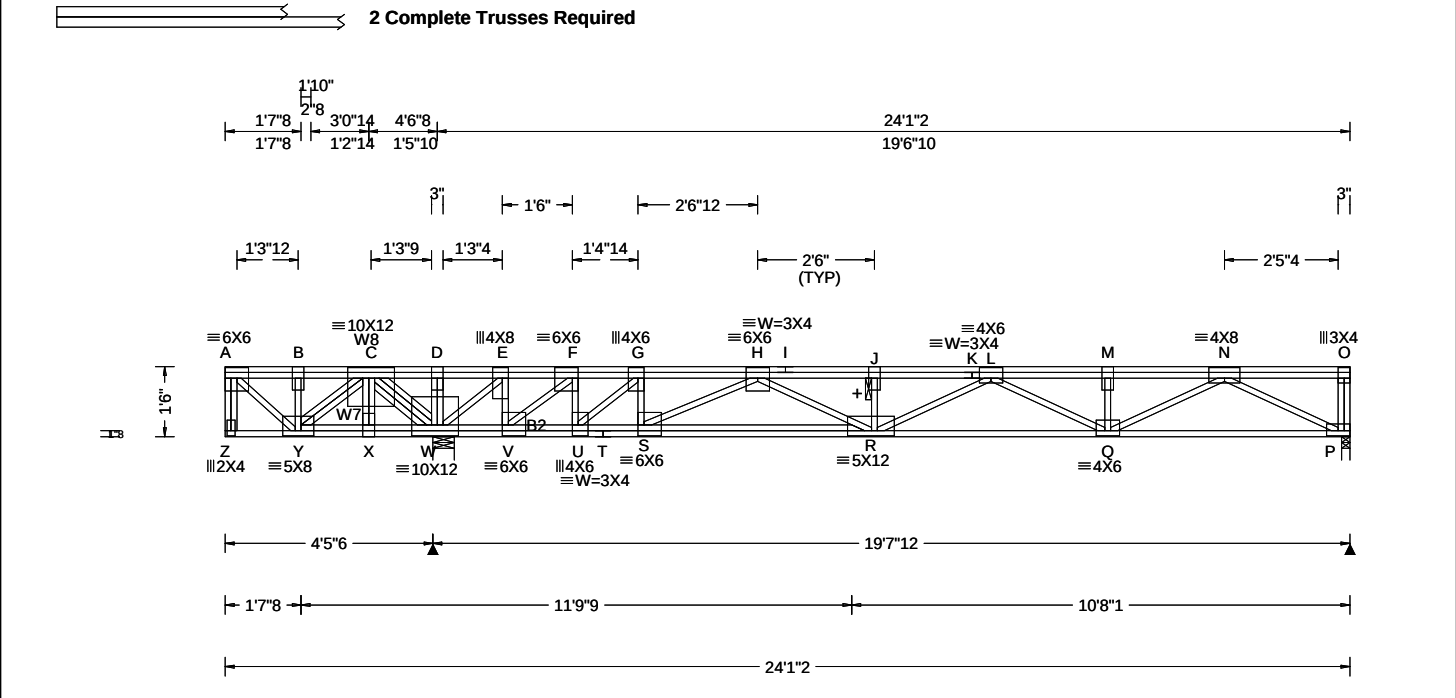
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ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

SEQN: 96341 / FROM:	SY42 Qty: 2	Ply: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F18G	Cust: R 9316 JRef:1XdX93160008 T17 / DrwNo: 076.22.1322.49165 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.124 Z 435 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.263 Z 204 360		W 8317	-/-	-/-	-/-	-/-	-/-	-/-	
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): -0.027 A - -		P 962	-/-165	-/-	-/-	-/-	-/-	-/-	
Des Ld: 75.00		EXP: NA Kzt: NA				HORZ(TL): 0.058 A - -		W Brg Wid = 5.5 Min Req = 1.5 (Truss)							
NCBCLL: 0.00		Mean Height: NA ft				Creep Factor: 2.0		P Brg Wid = 2.1 Min Req = 1.5 (Truss)							
Soffit: 0.00		TCDL: NA psf		Building Code:		Max TC CSI: 0.885		Bearings W & P are a rigid surface.							
Load Duration: 1.00		BCDL: NA psf		IBC 2018		Max BC CSI: 0.247		Members not listed have forces less than 375#							
Spacing: 16.0 "		MWFRS Parallel Dist: NA		TPI Std: 2014		Max Web CSI: 0.249		Maximum Top Chord Forces Per Ply (lbs)							
		C&C Dist a: NA ft		Rep Fac: Varies by Ld Case				Chords		Tens.Comp.		Chords		Tens. Comp.	
		Loc. from endwall: NA		FT/RT:12(0)/10(0)				A - B		420 0		H - I		1554 -1705	
		I: NA GCpi: NA		Plate Type(s):				B - C		420 0		I - J		1554 -1705	
		Wind Duration: NA		WAVE				C - D		4753 0		J - K		1551 -1711	
								D - E		4209 -367		L - M		534 -1347	
								E - F		3615 -827		M - N		534 -1347	
								F - G		3087 -1193		N - O		534 -1347	
								G - H		2553 -727		O - P		534 -1347	
								H - I		2019 -581		P - Q		534 -1347	
								I - J		1485 -425		Q - R		534 -1347	
								J - K		940 -269		R - S		534 -1347	
								K - L		386 -109		S - T		534 -1347	
								L - M		308 -87		T - U		534 -1347	
								M - N		235 -66		U - V		534 -1347	
								N - O		162 -45		V - W		534 -1347	
								O - P		90 -25		W - X		534 -1347	
								P - Q		22 -6		X - Y		534 -1347	
								Q - R		-5 -1		Y - Z		534 -1347	
								R - S		-12 -3		Z - AA		534 -1347	
								S - T		-19 -5		AA - AB		534 -1347	
								T - U		-26 -7		AB - AC		534 -1347	
								U - V		-33 -9		AC - AD		534 -1347	
								V - W		-40 -11		AD - AE		534 -1347	
								W - X		-47 -13		AE - AF		534 -1347	
								X - Y		-54 -15		AF - AG		534 -1347	
								Y - Z		-61 -17		AG - AH		534 -1347	
								Z - AA		-68 -19		AH - AI		534 -1347	
								AA - AB		-75 -21		AI - AJ		534 -1347	
								AB - AC		-82 -23		AJ - AK		534 -1347	
								AC - AD		-89 -25		AK - AL		534 -1347	
								AD - AE		-96 -27		AL - AM		534 -1347	
								AE - AF		-103 -29		AM - AN		534 -1347	
								AF - AG		-110 -31		AN - AO		534 -1347	
								AG - AH		-117 -33		AO - AP		534 -1347	
								AH - AI		-124 -35		AP - AQ		534 -1347	
								AI - AJ		-131 -37		AQ - AR		534 -1347	
								AJ - AK		-138 -39		AR - AS		534 -1347	
								AK - AL		-145 -41		AS - AT		534 -1347	
								AL - AM		-152 -43		AT - AU		534 -1347	
								AM - AN		-159 -45		AU - AV		534 -1347	
								AN - AO		-166 -47		AV - AW		534 -1347	
								AO - AP		-173 -49		AW - AX		534 -1347	
								AP - AQ		-180 -51		AX - AY		534 -1347	
								AQ - AR		-187 -53		AY - AZ		534 -1347	
								AR - AS		-194 -55		AZ - BA		534 -1347	
								AS - AT		-201 -57		BA - BB		534 -1347	
								AT - AU		-208 -59		BB - BC		534 -1347	
								AU - AV		-215 -61		BC - BD		534 -1347	
								AV - AW		-222 -63		BD - BE		534 -1347	
								AW - AX		-229 -65		BE - BF		534 -1347	
								AX - AY		-236 -67		BF - BG		534 -1347	
								AY - AZ		-243 -69		BG - BH		534 -1347	
								AZ - BA		-250 -71		BH - BI		534 -1347	
								BA - BB		-257 -73		BI - BJ		534 -1347	
								BB - BC		-264 -75		BJ - BK		534 -1347	
								BC - BD		-271 -77		BK - BL		534 -1347	
								BD - BE		-278 -79		BL - BM		534 -1347	
								BE - BF		-285 -81		BM - BN		534 -1347	
								BF - BG		-292 -83		BN - BO		534 -1347	
								BG - BH		-299 -85		BO - BP		534 -1347	
								BH - BI		-306 -87		BP - BQ		534 -1347	
								BI - BJ		-313 -89		BQ - BR		534 -1347	
								BJ - BK		-320 -91		BR - BS		534 -1347	
								BK - BL		-327 -93		BS - BT		534 -1347	
								BL - BM		-334 -95		BT - BU		534 -1347	
								BM - BN		-341 -97		BU - BV		534 -1347	
								BN - BO		-348 -99		BV - BW		534 -1347	
								BO - BP		-355 -101		BW - BX		534 -1347	
								BP - BQ		-362 -103		BX - BY		534 -1347	
								BQ - BR		-369 -105		BY - BZ		534 -1347	
								BR - BS		-376 -107		BZ - CA		534 -1347	
								BS - BT		-383 -109		CA - CB		534 -1347	
								BT - BU		-390 -111		CB - CC		534 -1347	
								BU - BV		-397 -113		CC - CD		534 -1347	
								BV - BW		-404 -115		CD - CE		534 -1347	
								BW - BX		-411 -117		CE - CF		534 -1347	
								BX - BY		-418 -119		CF - CG		534 -1347	
								BY - BZ		-425 -121		CG - CH		534 -1347	
								BZ - CA		-432 -123		CH - CI		534 -1347	
								CA - CB		-439 -125		CI - CJ		534 -1347	
								CB - CC		-446 -127		CJ - CK		534 -1347	
								CC - CD		-453 -129		CK - CL		534 -1347	
								CD - CE		-460 -131		CL - CM		534 -1347	
								CE - CF		-467 -133		CM - CN		534 -1347	
								CF - CG		-474 -135		CN - CO		534 -1347	
								CG - CH		-481 -137		CO - CP		534 -1347	
								CH - CI		-488 -139		CP - CQ		534 -1347	
								CI - CJ		-495 -141		CQ - CR		534 -1347	
								CJ - CK		-502 -143		CR - CS		534 -1347	
								CK - CL		-509 -145		CS - CT		534 -1347	
								CL - CM		-516 -147		CT - CU		534 -1347	
								CM - CN		-523 -149		CU - CV		534 -1347	
								CN - CO		-530 -151		CV - CW		534 -1347	
								CO - CP		-537 -153		CW - CX		534 -1347	
								CP - CQ		-544 -155		CX - CY		534 -1347	
								CQ - CR		-551 -157		CY - CZ		534 -1347	
								CR - CS		-558 -159		CZ - DA		534 -1347	
								CS - CT		-565 -161		DA - DB		534 -1347	
								CT - CU		-572 -163		DB - DC		534 -1347	
								CU - CV		-579 -165		DC - DD		534 -1347	
								CV - CW		-586 -167		DD - DE		534 -1347	
								CW - CX		-593 -169		DE - DF		534 -1347	
								CX - CY		-600 -171		DF - DG		534 -1347	
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								CZ - DA		-614 -175		DH - DI		534 -1347	
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								DB - DC		-628 -179		DJ - DK		534 -1347	
								DC - DD		-635 -181		DK - DL		534 -1347	
								DD - DE		-642 -183		DL - DM		534 -1347	
								DE - DF		-649 -185		DM - DN		534 -1347	
								DF - DG		-656 -187		DN - DO		534 -1347	
								DG - DH		-663 -189		DO - DP		534 -1347	
								DH - DI		-670 -191		DP - DQ		534 -1347	
								DI - DJ		-677 -193		DQ - DR		534 -1347	
								DJ - DK		-684 -195		DR - DS		534 -1347	
								DK - DL		-691 -197		DS - DT		534 -1347	
								DL - DM		-698 -199		DT - DU		534 -1347	
								DM - DN		-705 -201		DU - DV		534 -1347	
								DN - DO		-712 -203		DV - DW		534 -1347	
								DO - DP		-719 -205		DW - DX		534 -1347	
								DP - DQ		-726 -207		DX - DY		534 -1347	
								DQ - DR		-733 -209		DY - DZ		534 -1347	
								DR - DS		-740 -211		DZ - EA		534 -1347	
								DS - DT		-747 -213		EA - EB		534 -1347	
								DT - DU		-754 -215		EB - EC		534 -1347	
								DU - DV		-761 -217		EC - ED		534 -1347	
								DV - DW		-768 -219		ED - EE		534 -1347	
								DW - DX		-775 -221		EE - EF		534 -1347	
								DX - DY		-782 -223		EF - EG		534 -1347	
								DY - DZ		-789 -225		EG - EH		534 -1347	
								DZ - EA		-796 -227		EH - EI		534 -1347	
								EA - EB		-803 -229		EI - EJ		534 -1347	
								EB - EC		-810 -231		EJ - EK		534 -1347	
		</													

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads
----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes
All plates are 3X6 except as noted.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



Maximum Bot Chord Forces Per Ply (lbs)					
Chords		Tens.Comp.	Chords		Tens. Comp.
Y - X		0 - 1228	T - S		1169 - 3130
X - W		0 - 1219	S - R		1563 - 2265
W - V		329 - 4254	R - Q		1631 - 993
V - U		793 - 3663	Q - P		784 - 222
U - T		1169 - 3130			

Maximum Web Forces Per Ply (lbs)							
Webs		Tens.Comp.		Webs		Tens. Comp.	
A - Y	0	-548		G - S	539		0
Y - C	1053	0		S - H	0	-1139	
C - W	0	-4787		H - R	869		0
W - E	0	-999		R - L	89	-626	
E - V	636	0		L - Q	518	-321	
V - F	0	-1035		Q - N	636	-353	
F - U	652	0		N - P	250	-860	
U - G	0	-919					

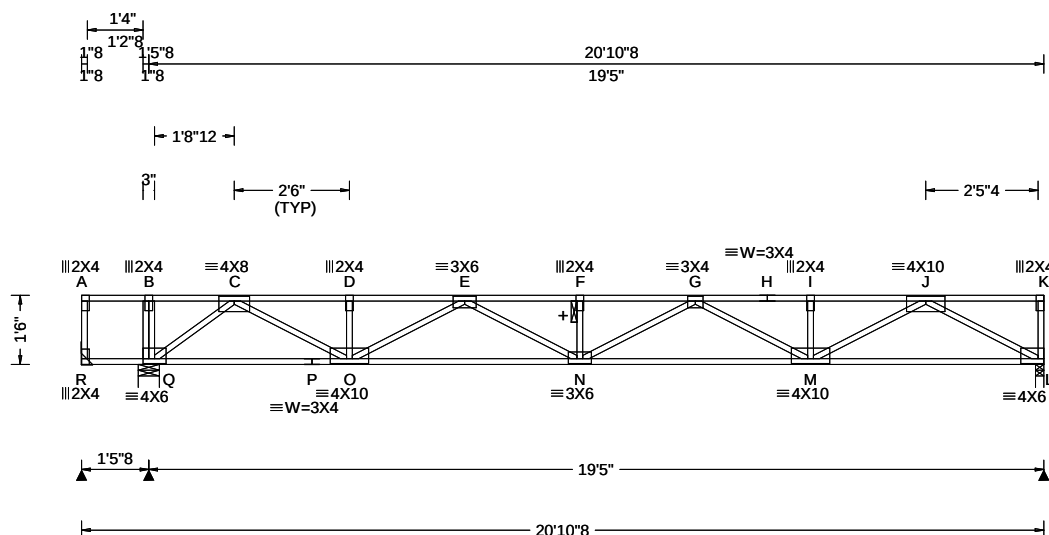
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Building 11

SEQN: 9750 / FROM:	SY42	Ply: 1 Qty: 24	Job Number: JB-220692 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F19	Cust: R 9316 JRef: 1XdX93160008 T34 / DrwNo: 076.22.1322.49959 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defll/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.246 F 943 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.462 F 502 360	R 27 /-42 /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.038 L - -	Q 1134 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.072 L - -	L 962 /- /- /- /- /-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	R Brg Wid = - Min Req = -
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.485	Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.960	L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.397	Bearings Q & L are a rigid surface.
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Members not listed have forces less than 375#
	Loc. from endwall: NA	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17	Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: NA			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2:

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

C - D	0 - 2320	G - H	0 - 2651
D - E	0 - 2320	H - I	0 - 2651
E - F	0 - 3393	I - J	0 - 2651
F - G	0 - 3393		

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
Q - N	3055	0			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	0	-1383	G - M	0	-654
C - O	1407	0	M - J	1233	0
O - E	0	-839	J - L	0	-1782
E - N	387	0			



03/17/2022

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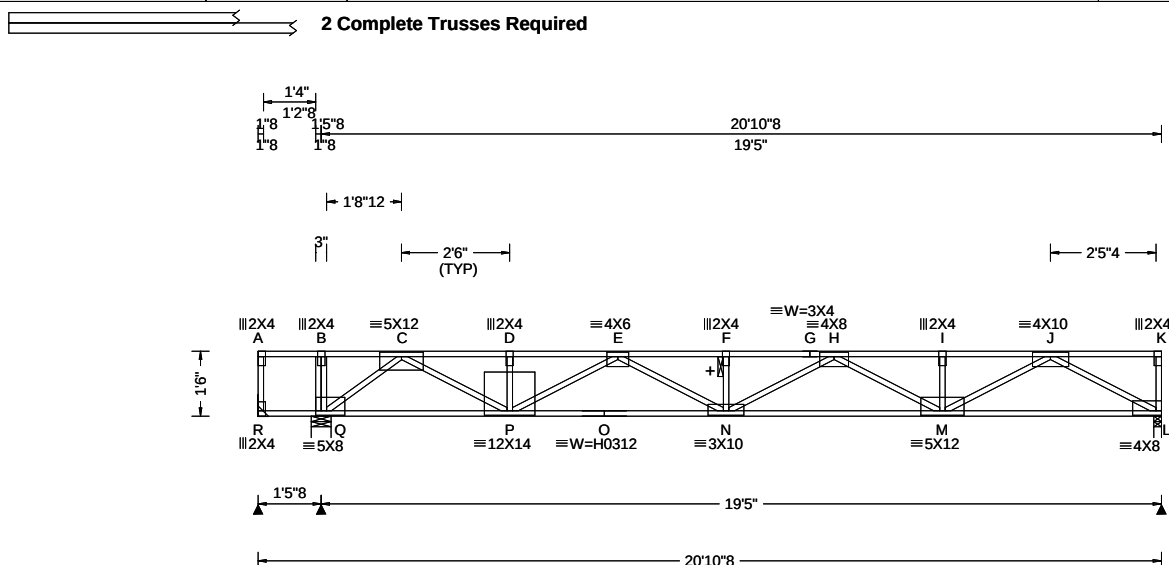
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Building 11

SEQN: 9752 / FROM:	SY42 Ply: 2 Qty: 4	Job Number: JB-220692 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F19G	Cust: R 9316 JRef: 1XdX93160008 T8 / DrwNo: 076.22.1322.49939 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.290 F 799 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.545 F 426 360	R 24 /-58 /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.041 C - -	Q 3942 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.076 C - -	L 1997 /- /- /- /- /-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	R Brg Wid = - Min Req = -
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.583	Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.585	L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Varies by Ld Case	Max Web CSI: 0.629	Bearings Q & L are a rigid surface.
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Members not listed have forces less than 375#
	Loc. from endwall: NA	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	I: NA GCpi: NA	WAVE. HS	VIEW Ver: 21.02.00.1005.17	Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: NA			

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2:

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
 TC: From 87 plf at 0.00 to 87 plf at 20.88
 BC: From 13 plf at 0.00 to 13 plf at 20.88
 TC: 443 lb Conc. Load at 0.94
 TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27
 7.60, 8.94, 10.27, 11.60, 12.94

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



03/17/2022

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▲ Maximum Reactions (lbs)

Loc	Gravity			Non-Gravity		
	R+	/R-	/Rh	/Rw	/U	/RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-

R Brq Wid = - Min Req = -

O Brq Wid = 5.5 Min Req = 1.5 (Truss)

Bearings Q & L are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
C - D	0 - 3789	G - H	0 - 5138
D - E	0 - 3789	H - I	0 - 3219
E - F	0 - 5138	I - J	0 - 3219
F - G	0 - 5138		

Maximum Bot Chord Forces Per Ply (lbs)

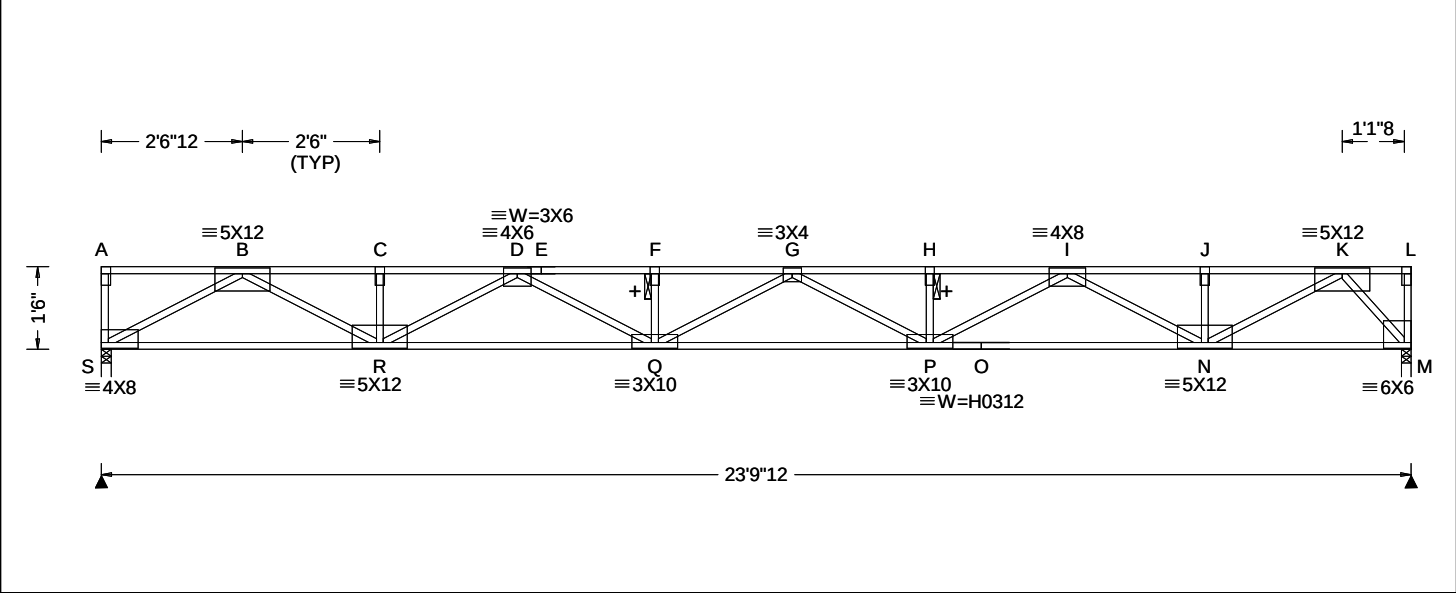
Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
Q - N	4877	0			

Maximum Web Forces Per Ply (lbs)

Webbs	Tens.Comp.	Webbs	Tens. Comp.
B - Q	0 -465	F - N	0 -473
Q - C	0 -2340	N - H	753 0
C - P	2229 0	H - M	0 -1437
D - P	0 -467	M - J	1679 0
P - E	0 -1242	J - L	0 -1984

Building 11

SEQN: 96343 / FROM:	SY42 Qty: 32	Ply: 1	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F21	Cust: R 9316 JRef:1XdX93160008 T19 / DrwNo: 076.22.1322.46965 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.419 G 682 480 VERT(CL): 0.785 G 364 360 HORZ(LL): 0.056 M - - HORZ(TL): 0.104 M - - Creep Factor: 2.0 Max TC CSI: 0.442 Max BC CSI: 0.664 Max Web CSI: 0.556 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1191 /- /- /- /- /- M 1191 /- /- /- /- /- S Brg Wid = 2.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3491 G - H 0 - 4826 C - D 0 - 3491 H - I 0 - 4826 D - E 0 - 5062 I - J 0 - 2773 E - F 0 - 5062 J - K 0 - 2773 F - G 0 - 5062

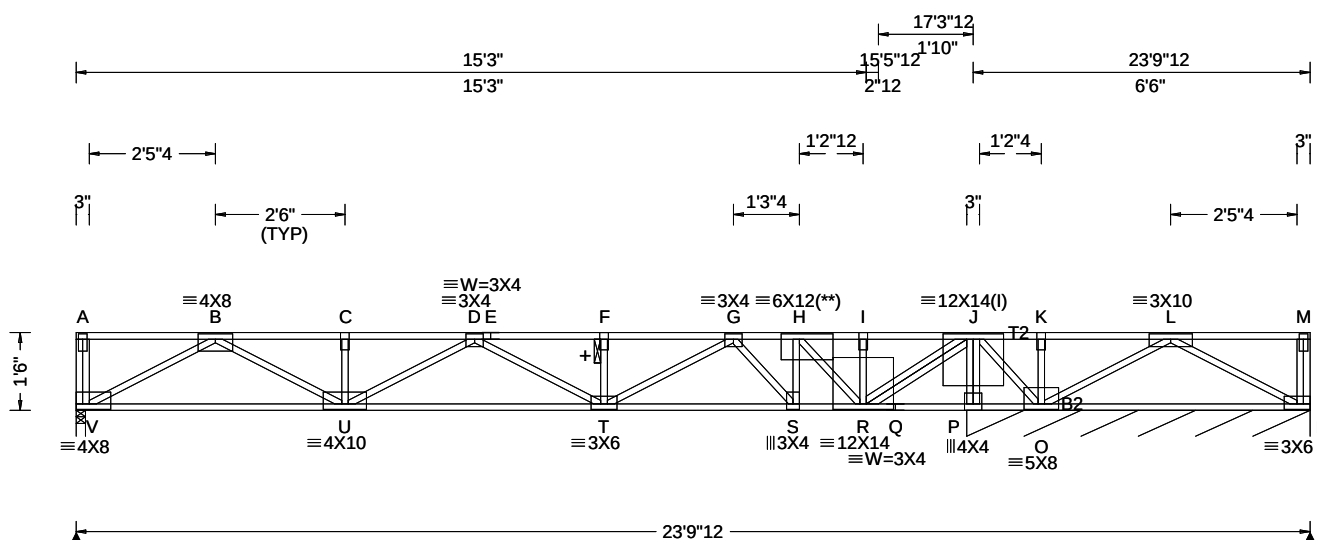
Lumber Top chord: 4x2 SPF 2100f-1.8E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;	Plating Notes All plates are 2X4 except as noted.	Deflection Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. S - R 1995 0 P - O 4000 0 R - Q 4479 0 O - N 4000 0 Q - P 5145 0 N - M 1047 0
				Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - B 0 - 2264 P - I 942 0 B - R 1707 0 I - N 0 - 1401 R - D 0 - 1127 N - K 1969 0 D - Q 665 0 K - M 0 - 1557



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Building 11

SEQN: 96374 / FROM:	SY42 Ply: 1 Qty: 2	Job Number: JB-220692 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F22	Cust: R 9316 JRef: 1Xd93160008 T2 / DrwNo: 076.22.1322.49587 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.179 F 999 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.335 F 613 360	V 961 -/-/-/-/-/-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.026 B - -	N* 441 -/-/-/-/-/-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.049 B - -	N -/246
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.504	N Brg Wid = 79.5 Min Req = -
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.472	Bearings V & P are a rigid surface.
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.548	Members not listed have forces less than 375#
	C&C Dist a: NA ft	FT/RT:12(O)/10(O)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: NA	Plate Type(s):		<u>Chords Tens.Comp. Chords Tens. Comp.</u>
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17	B - C 0 -2565 G - H 0 -2521
	Wind Duration: NA			

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2:

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC: From	87 plf at	0.00 to	87 plf at	23.81
BC: From	13 plf at	0.00 to	13 plf at	23.81
TC: 1500 lb Conc. Load at	13.90			

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



03/17/2022

▲ Maximum Reactions (lbs), or *≈PLF							
Gravity			Non-Gravity				
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL		
V	961	/-	/-	/-	/-		
N*	441	/-	/-	/-	/-		
N	/-246						
V	Brg Wid = 2.1 Min Req = 1.5 (Truss)						
N	Brg Wid = 79.5 Min Req = -						
Bearings V & P are a rigid surface.							
Members not listed have forces less than 375#							
Maximum Top Chord Forces Per Ply (lbs)							
Chords		Tens.Comp.		Chords		Tens. Comp.	
B - C	0	-2565	G - H	0	-2521		
C - D	0	-2565	H - I	0	-698		
D - E	0	-3256	I - J	0	-698		
E - F	0	-3256	J - K	1825	0		
F - G	0	-3256	K - L	1825	0		

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.	Comp.	Chords	Tens. Comp.
V - U	1507	0	R - Q	0 - 2561
U - T	3113	0	Q - P	0 - 2561
T - S	2904	0	P - O	0 - 2561
S - R	2477	0	O - N	0 - 681

Maximum Web Forces Per Ply (lbs)				
Webbs	Tens.	Comp.	Webbs	Tens. Comp.
V - B	0	-1714	H - R	0 - 2670
B - U	1208	0	R - J	3882 0
U - D	0	- 625	J - P	0 - 3088
T - G	402	0	J - O	1065 0
G - S	0	- 598	O - L	0 - 1307
S - H	486	0	L - N	779 0

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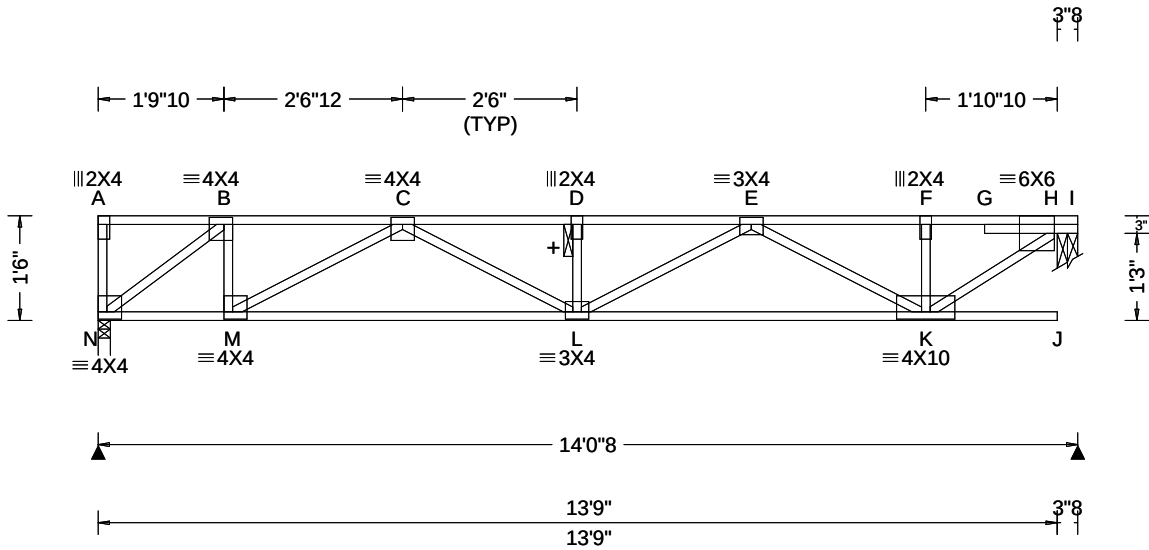
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SEQN: 96347 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F23	Cust: R 9316 JRef:1XdX93160008 T25 / DrwNo: 076.22.1322.47915 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.092 D 999 480 VERT(CL): 0.172 D 970 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.613 Max BC CSI: 0.522 Max Web CSI: 0.325 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 694 /- /- /- /- /- H 707 /- /- /- /- /- N Brg Wid = 2.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -869 E - F 0 -931 C - D 0 -1793 F - H 0 -930 D - E 0 -1793

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	831	L - K	1548
M - L	1525		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1045	E - K	0 -704
B - M	425	K - H	1152
M - C	0 -752		0

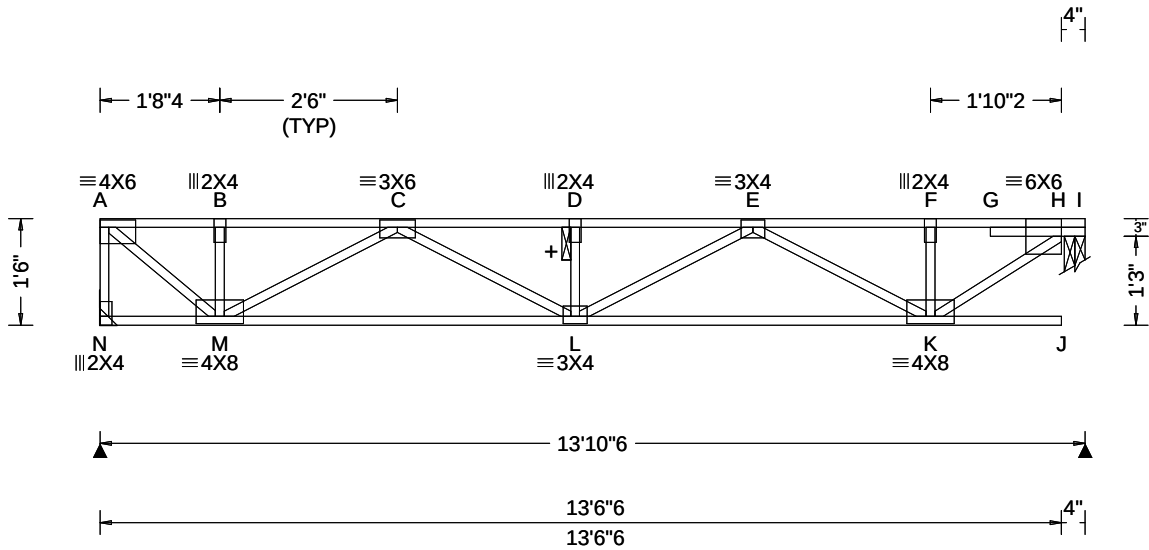


03/17/2022

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SEQN: 96349 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F24	Cust: R 9316 JRef:1XdX93160008 T3 / DrwNo: 076.22.1322.47157 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.090 D 999 480 VERT(CL): 0.167 D 982 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.604 Max BC CSI: 0.513 Max Web CSI: 0.320 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 685 /- /- /- /- /- H 697 /- /- /- /- /- N Brg Wid = - Min Req = - H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -776 D - E 0 -1749 B - C 0 -776 E - F 0 -917 C - D 0 -1749 F - H 0 -916 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 1463 0 L - K 1518 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. A - N 0 -684 E - K 0 -687 A - M 1001 0 K - H 1134 0 M - C 0 -784

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.



03/17/2022

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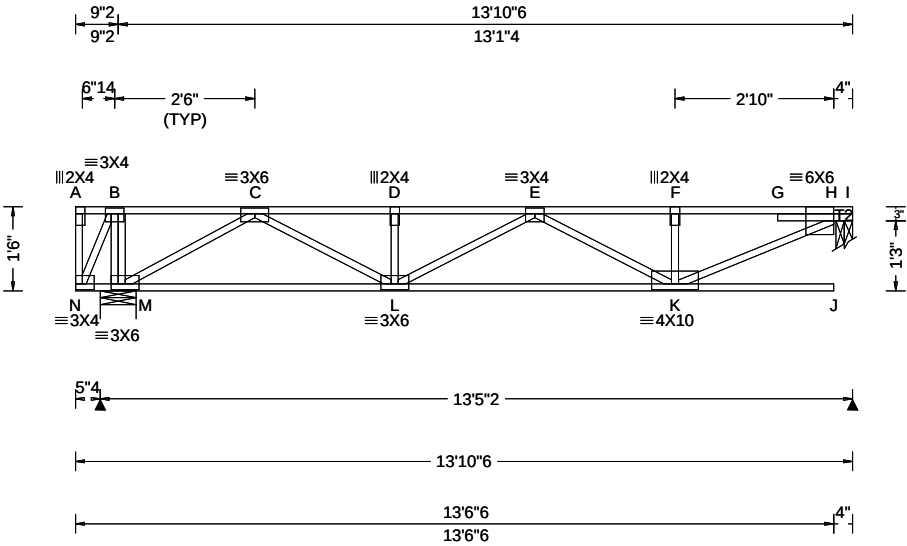
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 11

SEQN: 96351 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F25	Cust: R 9316 JRef:1XdX93160008 T11 / DrwNo: 076.22.1322.48996 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 J 784 480 VERT(CL): 0.316 J 488 360 HORZ(LL): 0.013 A - - HORZ(TL): 0.024 A - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.630 Max Web CSI: 0.367 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL M 729 /- /- /- /- /- H 659 /- /- /- /- /- M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 0 - 1447 E - F 0 - 1177 D - E 0 - 1447 F - H 0 - 1178 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 912 0 L - K 1482 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. M - C 0 - 1015 K - H 1301 0 C - L 614 0

Lumber
Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

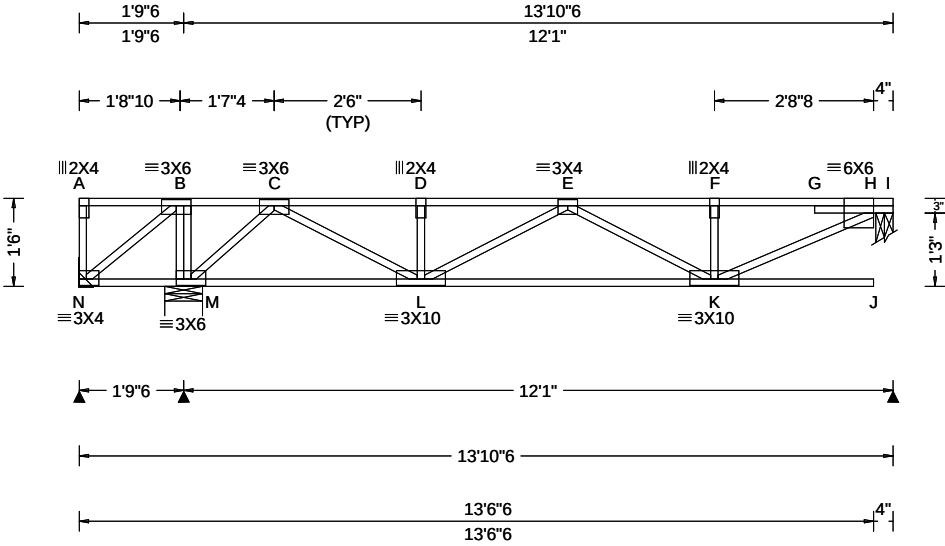


03/17/2022

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Suite 242
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SEQN: 96353 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F26	Cust: R 9316 JRef:1XdX93160008 T5 / DrwNo: 076.22.1322.47778 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/def L/#		Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.158 J 897 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.249 J 570 360		N	-	/-358	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): 0.007 C - -		M	1154	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code:		HORZ(TL): 0.013 C - -		H	547	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft				Creep Factor: 2.0		N Brg Wid = - Min Req = -						
Soffit: 0.00		TCDL: NA psf		IBC 2018		Max TC CSI: 0.823		M Brg Wid = 7.7 Min Req = 1.5 (Truss)						
Load Duration: 1.00		BCDL: NA psf		TPI Std: 2014		Max BC CSI: 0.493		H Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Spacing: 16.0 "		MWFRS Parallel Dist: NA		Rep Fac: Yes		Max Web CSI: 0.284		Bearings M & H are a rigid surface.						
		C&C Dist a: NA ft		FT/RT:12(0)/10(0)				Members not listed have forces less than 375#						
		Loc. from endwall: NA		Plate Type(s):				Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA		WAVE		VIEW Ver: 21.02.00.1005.17		Chords Tens.Comp. Chords Tens. Comp.						
		Wind Duration: NA												

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords		Tens.Comp.	Chords		Tens. Comp.
N - M		0 -465	L - K		1035 0

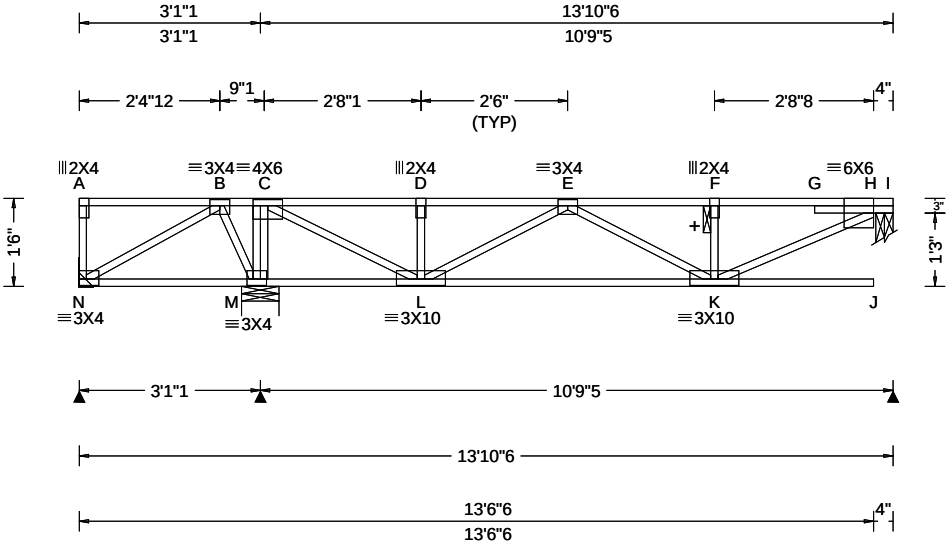
Maximum Web Forces Per Ply (lbs)					
Webs		Tens.Comp.	Webs		Tens. Comp.
N - B		596 0	C - L		815 0
B - M		0 -533	K - H		1005 0
M - C		0 -843			



03/17/2022

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SEQN: 96355 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F27	Cust: R 9316 JRef:1XdX93160008 T9 / DrwNo: 076.22.1322.47209 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 869 480 VERT(CL): 0.233 J 549 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.748 Max BC CSI: 0.436 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 44 /-139 /- /- /- /- M 963 /- /- /- /- /- H 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 427 0 E - F 0 -782 C - D 0 -495 F - H 0 -784 D - E 0 -495

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
L - K	815	0		
Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens. Comp.	
M - C	0	-633	K - H	872 0
C - L	964	0		

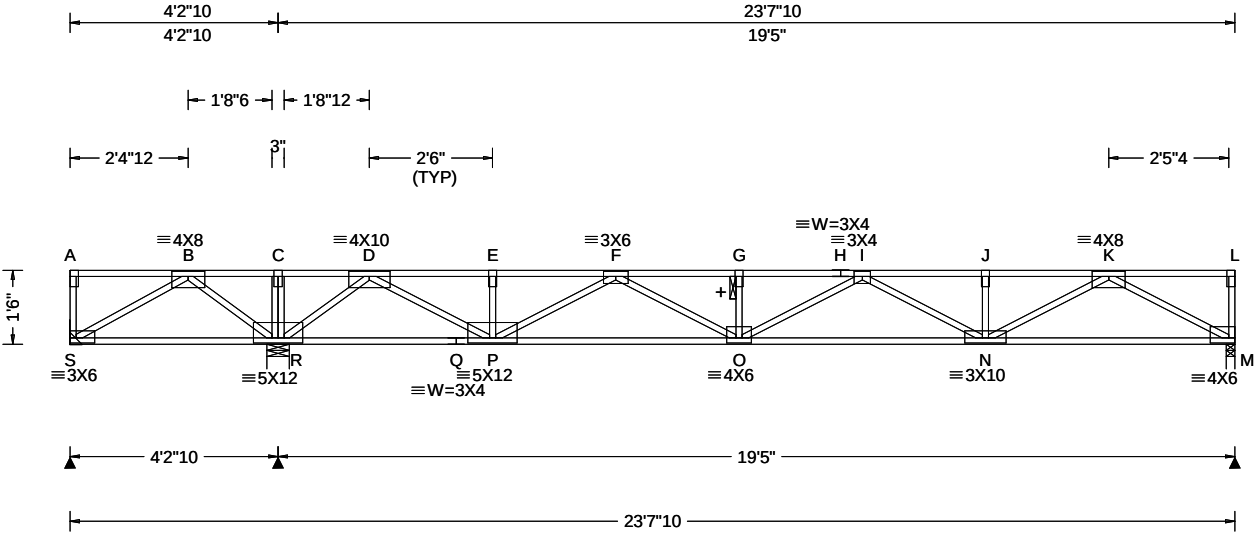


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Building 11

SEQN: 96357 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F28	Cust: R 9316 JRef:1XdX93160008 T10 / DrwNo: 076.22.1322.47743 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/def L/#			Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.196 G 999 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.369 G 630 360			S	-	/-490	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): 0.021 M - -			R	1906	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code: IBC 2018			HORZ(TL): 0.039 M - -			M	843	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft					Creep Factor: 2.0			S Brg Wid = - Min Req = -						
Soffit: 0.00		TCDL: NA psf		TPI Std: 2014			Max TC CSI: 0.660			R Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Load Duration: 1.00		BCDL: NA psf		Rep Fac: Yes			Max BC CSI: 0.795			M Brg Wid = 2.1 Min Req = 1.5 (Truss)						
Spacing: 16.0 "		MWFRS Parallel Dist: NA		FT/RT:12(0)/10(0)			Max Web CSI: 0.467			Bearings R & M are a rigid surface.						
		C&C Dist a: NA ft		Plate Type(s):			VIEW Ver: 21.02.00.1005.17			Members not listed have forces less than 375#						
		Loc. from endwall: NA		WAVE						Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA					Chords Tens.Comp. Chords Tens. Comp.									
		Wind Duration: NA					B C 1763 0 G H 0 2527									

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Negative reaction(s) of -490# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	0 -944	P - O	1976 0
R - Q	0 -440	O - N	2573 0
Q - P	0 -440	N - M	1350 0

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
S - B	1088 0	F - O	633 0
B - R	0 -1142	I - N	0 -408
R - D	0 -1649	N - K	988 0
D - P	1656 0	K - M	0 -1532
P - F	0 -1087		



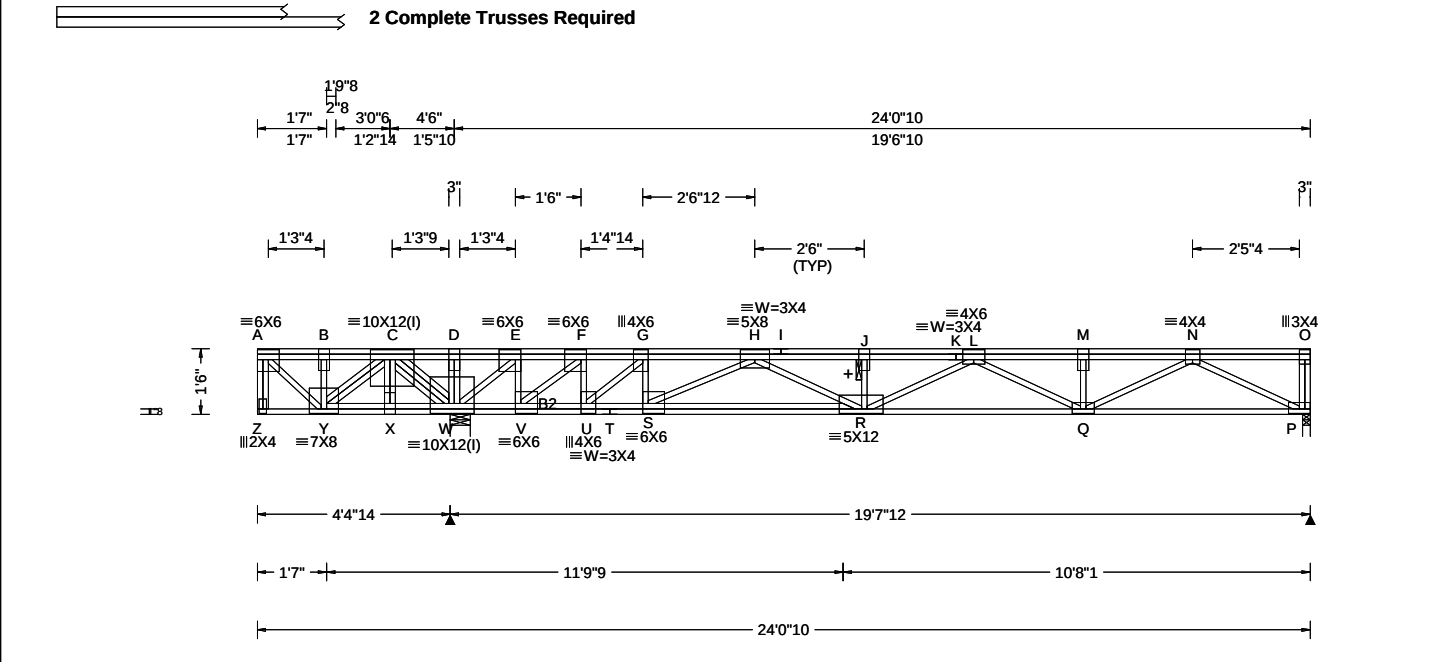
03/17/2022

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Building 11

SEQN: 96361 /	SY42	Ply: 2	Job Number: JB-220692	Cust: R 9316 JRef: 1XdX93160008 T12 /
FROM:		Qty: 2	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 076.22.1322.46962
			Truss Label: F28G	/ NDW 03/17/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.120 A 443 480 VERT(CL): 0.268 Z 198 360 HORZ(LL): -0.025 A - - HORZ(TL): 0.057 A - - Creep Factor: 2.0 Max TC CSI: 0.433 Max BC CSI: 0.260 Max Web CSI: 0.271 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL W 8750 /- /- /- /- /- P 618 /-243 /- /- /- /- W Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings W & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 597 0 H - I 1855 -383 B - C 597 0 I - J 1855 -383 C - D 5342 0 J - K 1853 -389 D - E 5337 0 K - L 1853 -389 E - F 4767 0 L - M 685 -689 F - G 4126 0 M - N 685 -689 G - H 3551 0

Lumber	Special Loads
Top chord: 4x2 DF-L 2400f-2.0E; Bot chord: 4x2 DF-L 2400f-2.0E; B2 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2;	----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00) TC: From 87 plf at 0.00 to 87 plf at 24.05 BC: From 13 plf at 0.00 to 13 plf at 24.05 TC: 1129 lb Conc. Load at 0.12 TC: 5500 lb Conc. Load at 3.03

Plating Notes	Maximum Bot Chord Forces Per Ply (lbs)
All plates are 3X6 except as noted. (I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.	Chords Tens.Comp. Chords Tens. Comp. Y - X 0 -1645 T - S 0 -3597 X - W 0 -1635 S - R 0 -2646 W - V 0 -4815 R - Q 647 -1215 V - U 0 -4178 Q - P 456 -296 U - T 0 -3597

Additional Notes	Maximum Web Forces Per Ply (lbs)
See DWG CNSY42PL0118 for connection details of 2 ply trusses. + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. Truss must be installed as shown with top chord up.	Webs Tens.Comp. Webs Tens. Comp. A - Y 0 -789 G - S 577 0 Y - C 1366 0 S - H 0 -1230 C - W 0 -5021 H - R 961 0 W - E 0 -1030 R - L 0 -716 E - V 677 0 L - Q 599 0 V - F 0 -1093 Q - N 264 -439 F - U 694 0 N - P 330 -495 U - G 0 -980

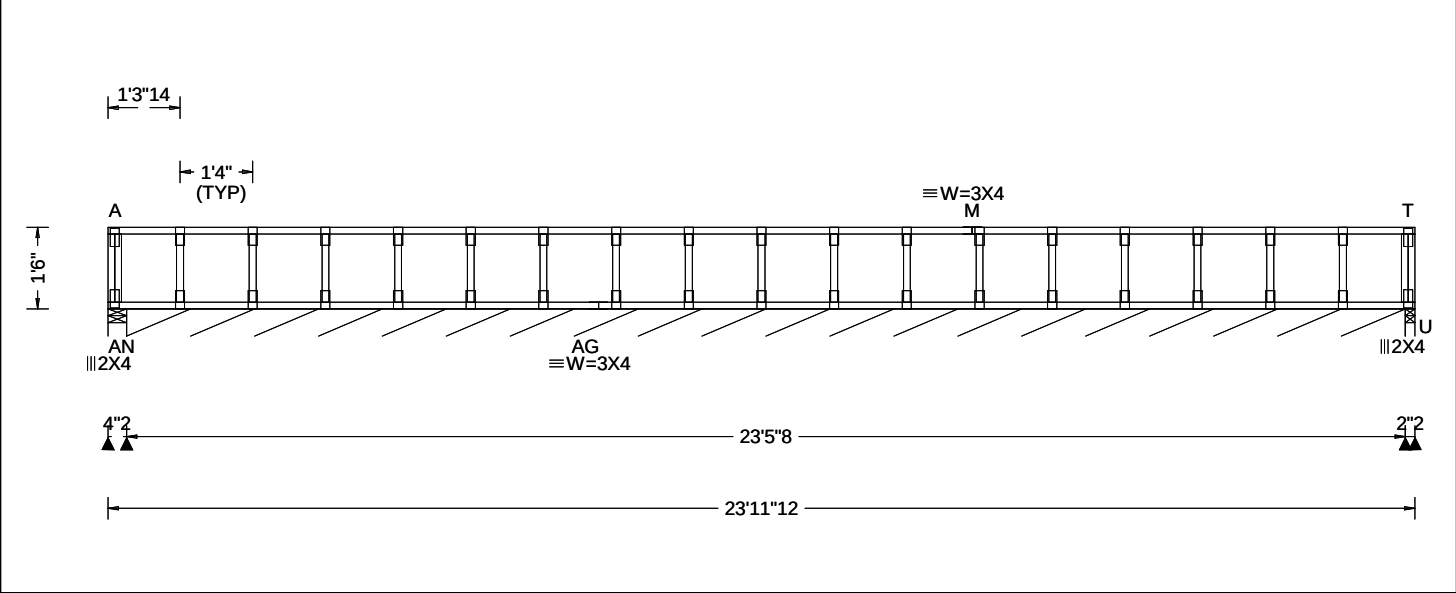


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Building 11

SEQN: 96363 / FROM:	SY42 Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L11	Cust: R 9316 JRef:1XdX93160008 T29 / DrwNo: 076.22.1322.48736 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *≡PLF						
				Gravity			Non-Gravity			
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.000 T 999 480							
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.001 T 999 360	AN 68	/-	/-	/-	/-	/-	/-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.003 B - -	AN*97	/-	/-	/-	/-	/-	/-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.005 B - -	U 64	/-	/-	/-	/-	/-	/-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	AN Brg Wid = 4.1 Min Req = 1.5 (Truss)						
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.060	AN Brg Wid = 281 Min Req = -						
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.013	U Brg Wid = 2.1 Min Req = 1.5 (Truss)						
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.018	Bearings AN, AN, & U are a rigid surface.						
	C&C Dist a: NA ft	FT/RT:20(0)/10(0)		Members not listed have forces less than 375#						
	Loc. from endwall: NA	Plate Type(s):								
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: NA									

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



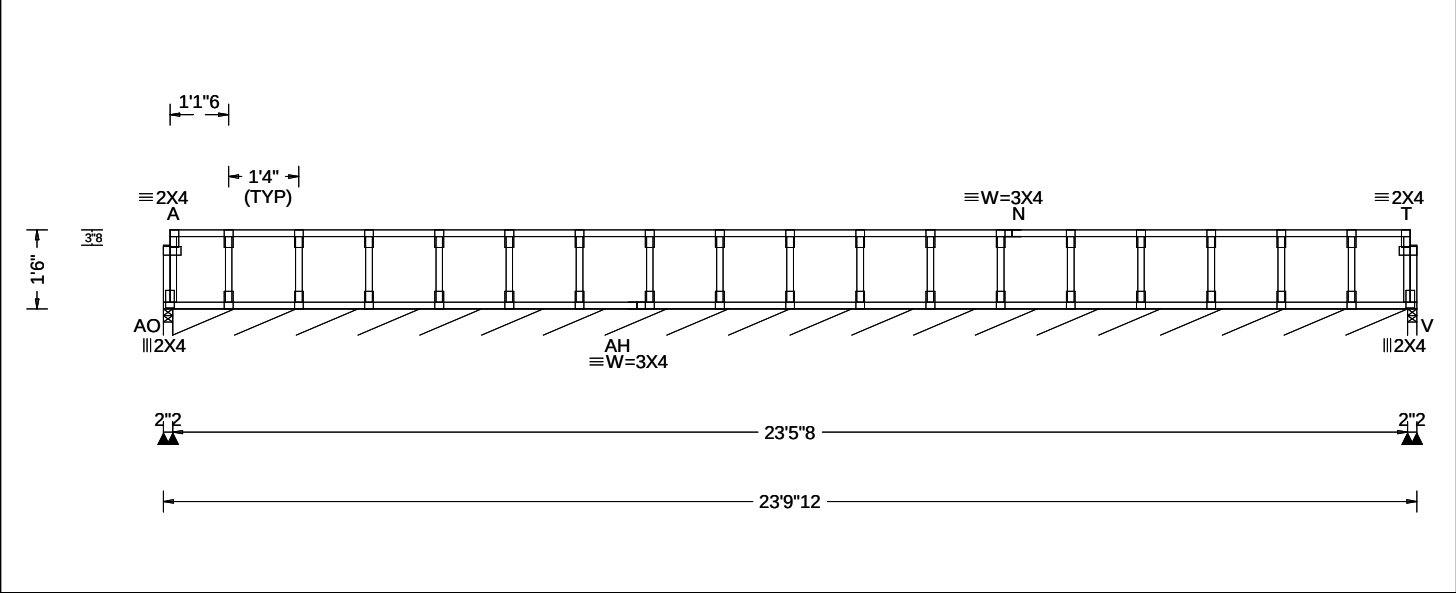
03/17/2022

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Building 11

SEQN: 96365 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220692 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L21	Cust: R 9316 JRef:1XdX93160008 T30 / DrwNo: 076.22.1322.49070 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.000 T 999 360 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.009 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity AO 48 /- /- /- /- /- AO*97 /- /- /- /- /- V 48 /- /- /- /- /- AO Brg Wid = 2.1 Min Req = 1.5 (Truss) AO Brg Wid = 281 Min Req = - V Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AO, AO, & V are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.
Provide for complete drainage of roof.
Truss must be installed as shown with top chord up.



03/17/2022

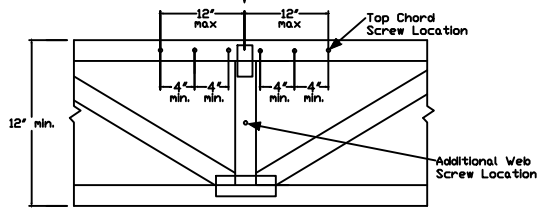
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System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

Max. Concentrated Load per Chart Below



Refer to Alpine sealed drawing for individual truss design.

Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

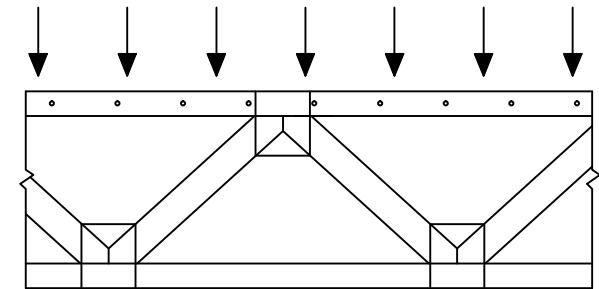
If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Max. Uniform Load per Chart Below



For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200



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For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org

TC LL	PSF	REF	SY42 Connection
TC DL	PSF	DATE	01/19/2018
BC DL	PSF	DRWG	CNSY42PL0118
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



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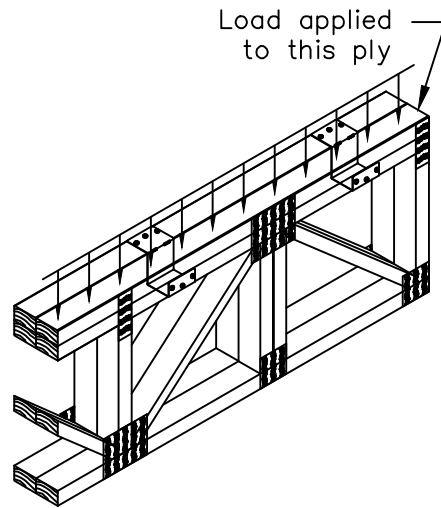
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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL FOR DOWNWARD LOADS ONLY

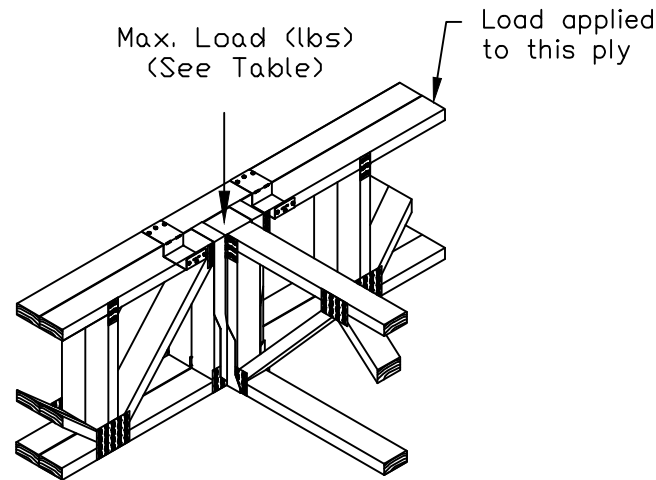
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application

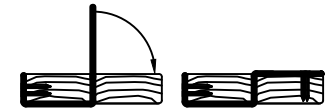


Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

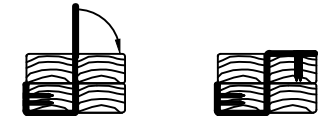
Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.
2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.



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REF SY42 Connection

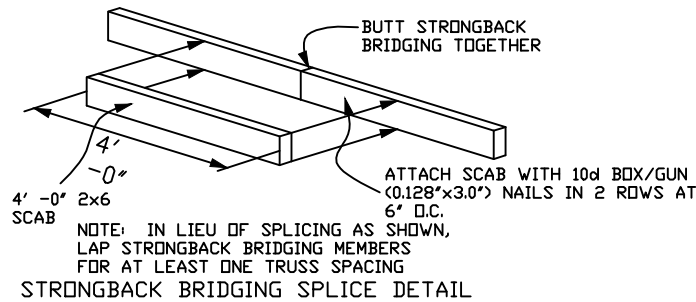
DATE 10/01/14

DRWG LSCSYX2A1014

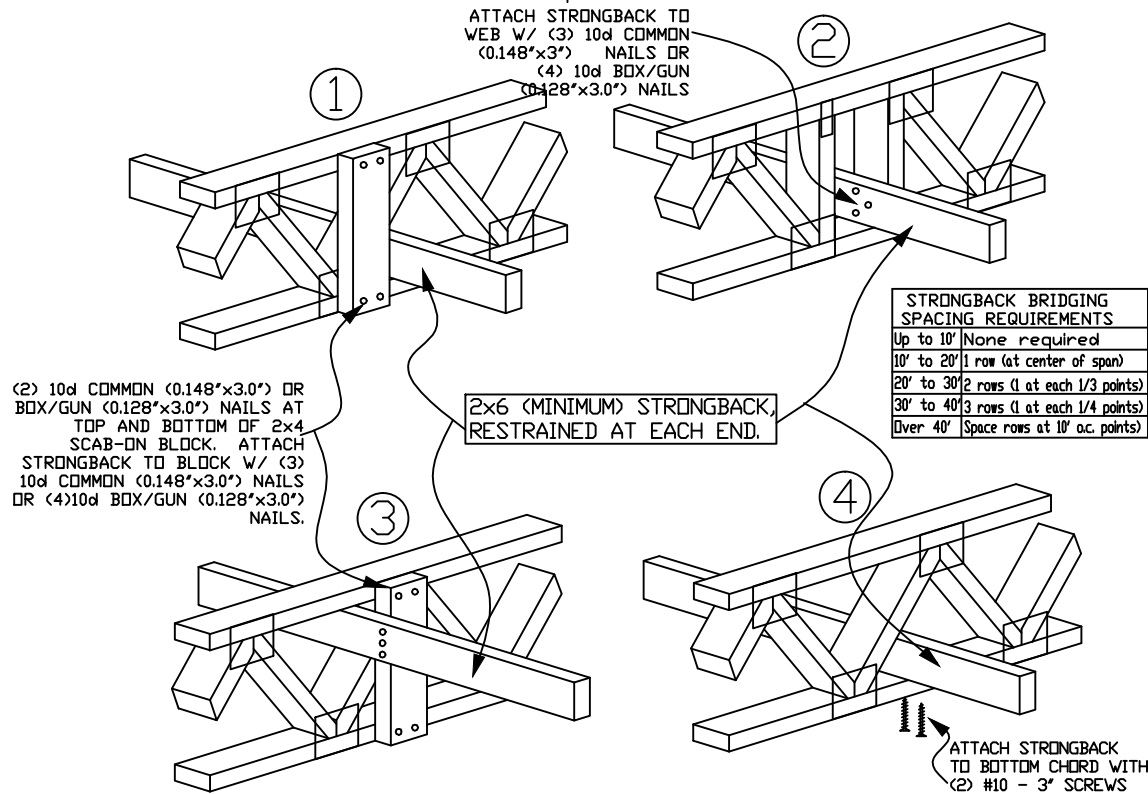
DUR. FAC.

ALL

STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: Details 1 and 2 are the preferred attachment methods



- ▶ All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- ▶ All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- ▶ The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- ▶ The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES



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TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/19/2022

REVIEWED ☒ DATE RECEIVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



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St. Louis, Missouri 63144
314.395.9750
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SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/30/2022 BY: CB

Site Information:		Page 1:	
Customer: Mill Creek Truss		Job Number: JB-220693	
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr			
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO			

Job Engineering Criteria:			
Design Code: IBC 2018		IntelliVIEW Version: 21.02.00	
		JRef #: 1XfO93160003	
Wind Standard: ASCE 7-16	Wind Speed (mph): 109	Design Loading (psf): 65.00	
Building Type: Closed			

This package contains general notes pages, 82 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	139.22.0947.36020	J01G	2	139.22.0947.40317	J02
3	139.22.0947.49490	J03	4	139.22.0948.19840	T01
5	139.22.0948.26067	T02	6	139.22.0948.31583	T03
7	139.22.0948.36433	T04	8	139.22.0948.45297	T05
9	139.22.0948.49100	T06	10	139.22.0948.54373	T07
11	139.22.0948.59223	T08	12	139.22.0949.31840	T10
13	139.22.1000.04690	T11	14	139.22.1000.21780	T12
15	139.22.1000.44667	T13	16	139.22.1000.47867	T14
17	139.22.1000.52200	T15	18	139.22.1001.03370	T17
19	139.22.1001.08417	T18	20	139.22.1001.14067	T19
21	139.22.1001.40657	T20	22	139.22.1001.45153	T21
23	139.22.1001.49203	T22	24	139.22.1001.55453	T23
25	139.22.1002.03703	T24	26	139.22.1012.18290	T25
27	139.22.1012.25377	T26	28	139.22.1012.30043	T27
29	139.22.1012.35600	T28	30	139.22.1012.42393	T29
31	139.22.1012.48447	T30	32	139.22.1012.56007	T31
33	139.22.1013.09360	T33	34	139.22.1013.14307	T34
35	139.22.1013.20497	T35	36	139.22.1013.26690	T36
37	139.22.1013.35327	T37	38	139.22.1013.42607	T38
39	139.22.1013.50930	T39	40	139.22.1013.57413	T40
41	139.22.1014.02977	T41	42	139.22.1014.09803	T42
43	139.22.1014.15690	T43	44	139.22.1014.22700	T44
45	139.22.1014.27663	T45	46	139.22.1014.37373	T46
47	139.22.1014.44723	T47	48	139.22.1014.48777	T48
49	139.22.1014.57150	T49	50	139.22.1015.01500	T50



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/19/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	Job Number: JB-220693
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	139.22.1015.15527	T51
53	139.22.0906.42780	TGE01
55	139.22.0906.42914	TGE03
57	139.22.0906.42054	TGE05
59	139.22.0906.41921	TGE07
61	139.22.0906.42717	TGE09
63	139.22.0906.42423	TGE11
65	139.22.0906.42013	TGE13
67	139.22.0906.42496	TGE15
69	139.22.0906.42327	TGE17
71	139.22.1015.25600	TGE19
73	139.22.1015.34987	TGE21
75	139.22.0906.42000	TGE23
77	139.22.1000.59477	T16
79	139.22.0947.45770	J02A
81	139.22.1015.48073	TGE24
83	A11530ENC160118	
85	DEFLCAMB1014	
87	GBLLETIN0118	

Item	Drawing Number	Truss
52	139.22.1015.19437	T52
54	139.22.0906.42670	TGE02
56	139.22.0906.42840	TGE04
58	139.22.0906.41998	TGE06
60	139.22.0906.42885	TGE08
62	139.22.0906.42662	TGE10
64	139.22.0906.42021	TGE12
66	139.22.0906.42067	TGE14
68	139.22.0906.42361	TGE16
70	139.22.0906.42020	TGE18
72	139.22.1015.32097	TGE20
74	139.22.1015.39407	TGE22
76	139.22.0949.12417	T09
78	139.22.1013.04320	T32
80	139.22.0949.02650	T08A
82	139.22.1014.52860	T48A
84	BRCLBSUB0119	
86	GABRST160118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

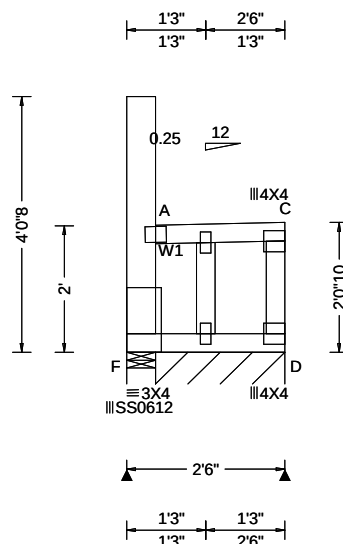
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 11

SEQN: 36967	GABL	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1Xf093160003 T208
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.0947.36020
			Truss Label: J01G	/ NDW 05/19/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *≈PLF						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL): 0.005 A 999 360		Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL): 0.007 A 999 240		F	47	/-	/-	/124	/146	/99
BCDL:	15.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL): 0.092 A - -		D*	134	/-	/-	/130	/58	/-
		EXP:	B Kzt: NA			HORZ(TL): 0.105 A - -		Wind reactions based on MWFRS						
Des Ld:	65.00	Mean Height:	21.70 ft			Creep Factor: 2.0		F Brg Wid = 5.5 Min Req = 1.5 (Truss)						
NCBCLL:	0.00	TCDL:	5.0 psf			Max TC CSI: 0.129		D Brg Wid = 24.5 Min Req = -						
Soffit:	2.00	BCDL:	3.0 psf			Max BC CSI: 0.373		Bearings F & F are a rigid surface.						
Load Duration:	1.15	MWFRS Parallel Dist:	0 to h/2			Max Web CSI: 0.164		Members not listed have forces less than 375#						
Spacing:	24.0 "	C&C Dist a:	3.00 ft											
		Loc. from endwall:	Any											
		GCpi:	0.18											
		Wind Duration:	1.60											
				Building Code:										
				IBC 2018										
				TPI Std: 2014										
				Rep Fac: Yes										
				FT/RT:20(0)/10(0)										
				Plate Type(s):										
				18SS. WAVE										
						VIEW Ver: 21.02.00.1005.17								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance

Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.

Truss must be installed as shown with top chord up.



05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

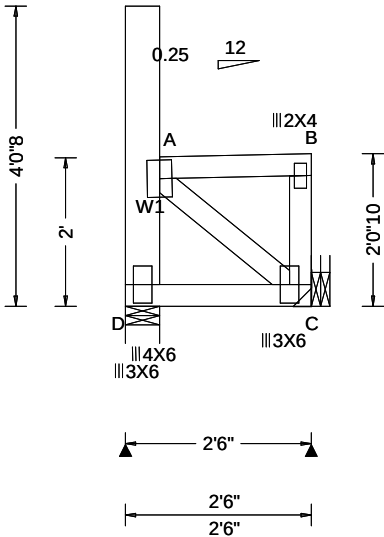
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 36968 FROM:	MONO Ply: 1 Qty: 27	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02	Cust: R 9316 JRef:1XIO93160003 T218 DrwNo: 139.22.0947.40317 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	147	/-	/-	/114	/80	/91
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	173	/-	/-	/158	/64	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	D	Brg Wid = 5.5		Min Req = 1.5 (Truss)			
NCBCLL: 0.00	Mean Height: 21.70 ft		Creep Factor: 2.0	C	Brg Wid = -		Min Req = -			
Soffit: 2.00	TCDL: 5.0 psf	Building Code:	Max TC CSI: 0.103	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	IBC 2018	Max BC CSI: 0.079	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.131	Maximum Web Forces Per Ply (lbs)						
	C&C Dist a: 3.00 ft	Rep Fac: Yes		Webs	Tens.Comp.					
	Loc. from endwall: Any	FT/RT:20(0)/10(0)		A - C	240	-390				
	GCpi: 0.18	Plate Type(s):								
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

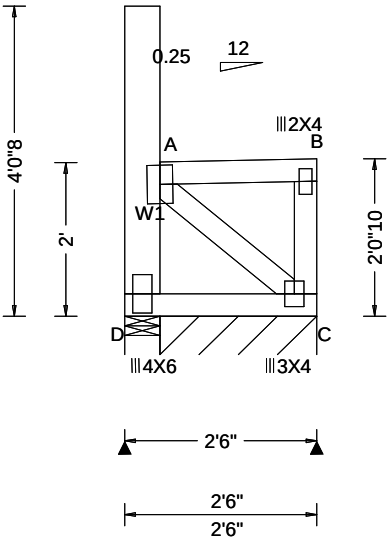
Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 36970 FROM:	MONO Qty: 6	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J03	Cust: R 9316 JRef:1XIO93160003 T135 DrwNo: 139.22.0947.49490 / NDW 05/19/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.000 B 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.000 B 999 240		D	147	/-	/-	/123	/86	/99
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.001 B - -		C*	85	/-	/-	/78	/34	/-
Des Ld: 65.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE		HORZ(TL): 0.001 B - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 21.70 ft				Creep Factor: 2.0		D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.103		C Brg Wid = 24.5 Min Req = -						
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.079		Bearings D & D are a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h				Max Web CSI: 0.106		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft												
		Loc. from endwall: not in 14.50 ft												
		GCpi: 0.18												
		Wind Duration: 1.60												
						VIEW Ver: 21.02.00.1005.17								

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes
All plates are 3X6 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

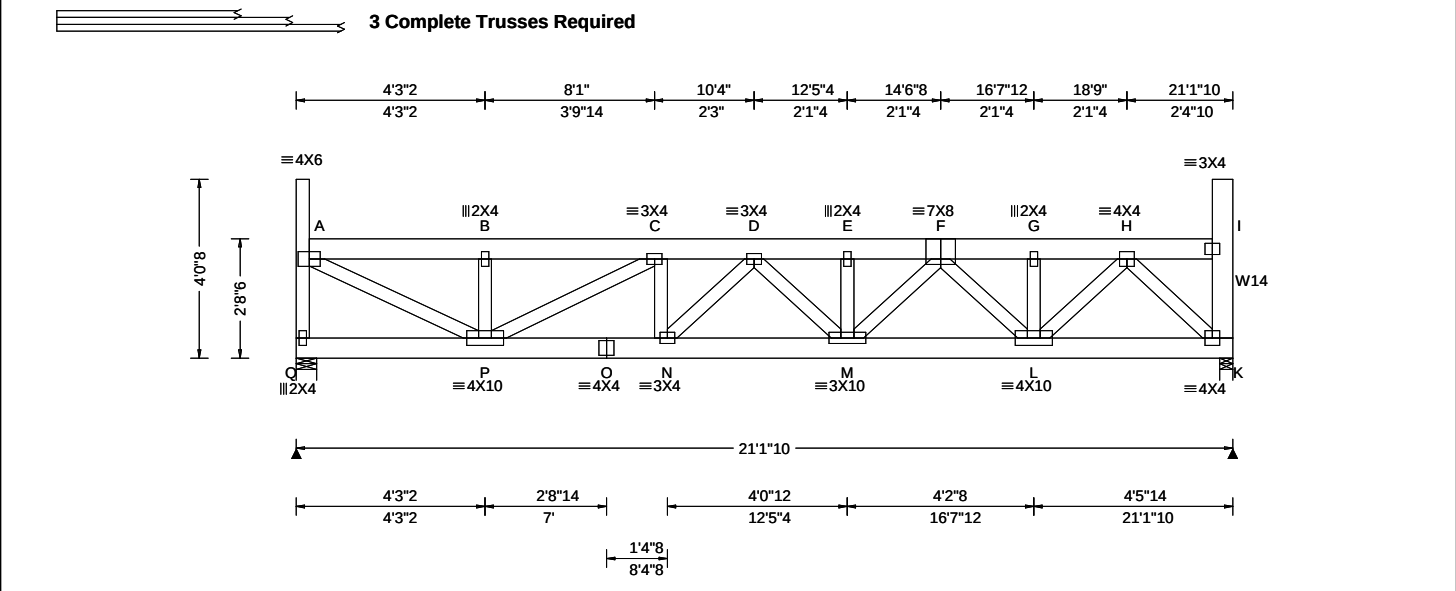
Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 37048 FROM:	FLAT Ply: 3 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T01	Cust: R 9316 JRef:1XIO93160003 T2 DrwNo: 139.22.0948.19840 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.060 D 999 360 VERT(CL): 0.111 D 999 240 HORZ(LL): 0.014 K - - HORZ(TL): 0.026 K - - Creep Factor: 2.0 Max TC CSI: 0.054 Max BC CSI: 0.283 Max Web CSI: 0.291 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Q 1981 -/- /- /- /125 -/ K 2325 -/- /- /- /158 -/ Wind reactions based on MWFRS Q Brg Wid = 5.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings Q & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 60 plf at 0.00 to 60 plf at 21.14
BC: 1611 lb Conc. Load at 12.90

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
P - O	1751 -119	M - L	1836 -133
O - N	1751 -119	L - K	768 -54
N - M	2024 -144		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
Q - A	40 -620	F - L	50 -652
A - P	1188 -77	L - H	908 -65
P - C	55 -752	H - K	74 -1041
M - F	554 -44		

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 20.39 1.34 13.80 3.32
20.68 0.00 20.39 1.34 13.80 3.32
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.



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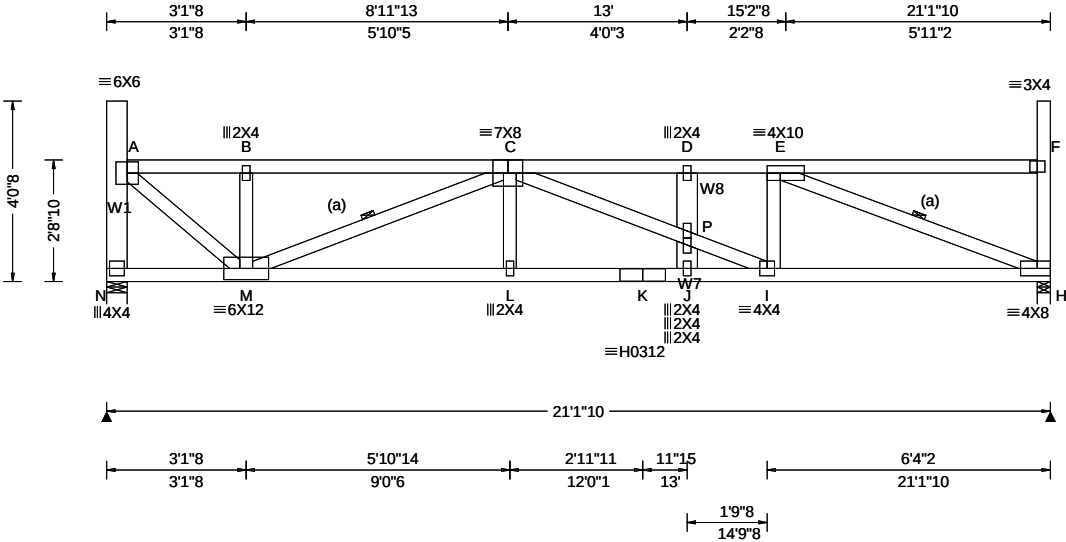
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36971 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T02	Cust: R 9316 JRef:1XIO93160003 T165 DrwNo: 139.22.0948.26067 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.138 D 999 360 VERT(CL): 0.256 D 990 240 HORZ(LL): 0.036 H - - HORZ(TL): 0.066 H - - Creep Factor: 2.0 Max TC CSI: 0.439 Max BC CSI: 0.523 Max Web CSI: 0.606 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1340 - / - / - /640 /77 /121 H 1352 - / - / - /645 /79 - Non-Gravity Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 1.9 (Truss) H Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 137 -1624 C - D 147 -2651 B - C 136 -1621 D - E 147 -2651

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.32 13.12 3.16
20.84 0.00 20.39 1.32 13.12 3.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

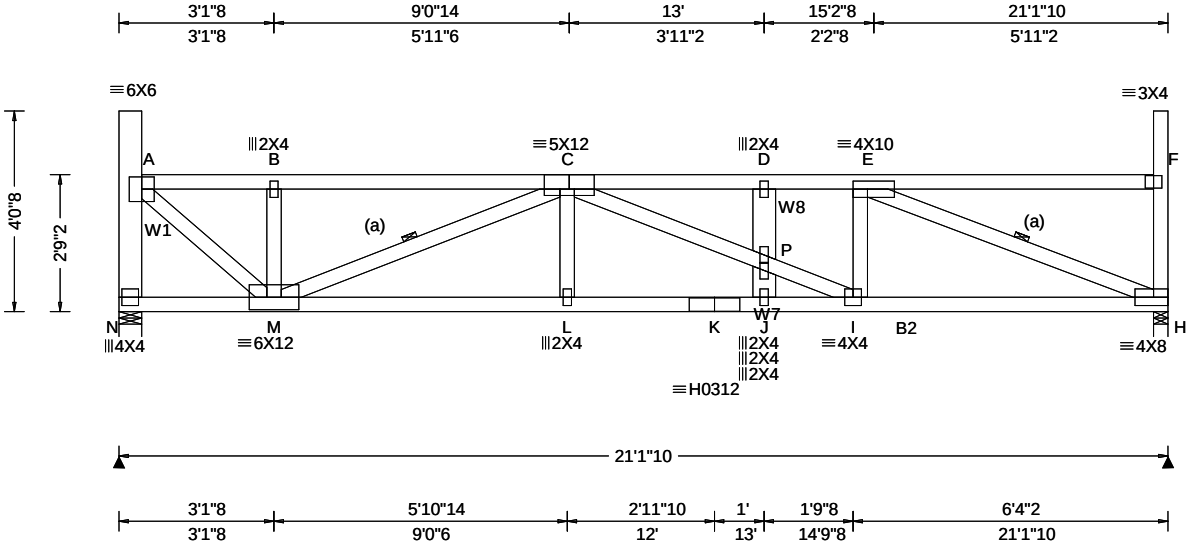
Truss must be installed as shown with top chord up.



05/19/2022

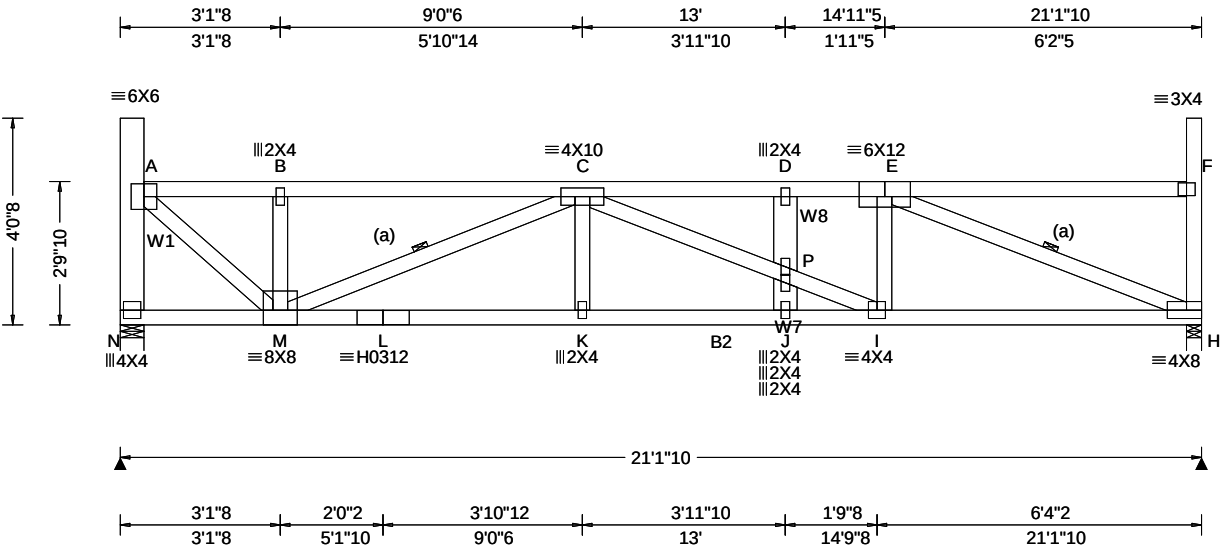
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 36972 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T03	Cust: R 9316 JRef:1XIO93160003 T168 DrwNo: 139.22.0948.31583 / NDW 05/19/2022
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Building 11

SEQN: 36973 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T04	Cust: R 9316 JRef:1XIO93160003 T134 DrwNo: 139.22.0948.36433 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.132 D 999 360 VERT(CL): 0.236 D 999 240 HORZ(LL): 0.036 H - - HORZ(TL): 0.067 H - - Creep Factor: 2.0 Max TC CSI: 0.440 Max BC CSI: 0.919 Max Web CSI: 0.592 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1342 - / - / 639 / 78 / 119 H 1353 - / - / 644 / 80 / - Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 2.1 (Truss) H Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 133 -1571 C - D 168 -2565 B - C 132 -1567 D - E 168 -2565

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.24 10.35 2.50
20.84 0.00 20.39 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

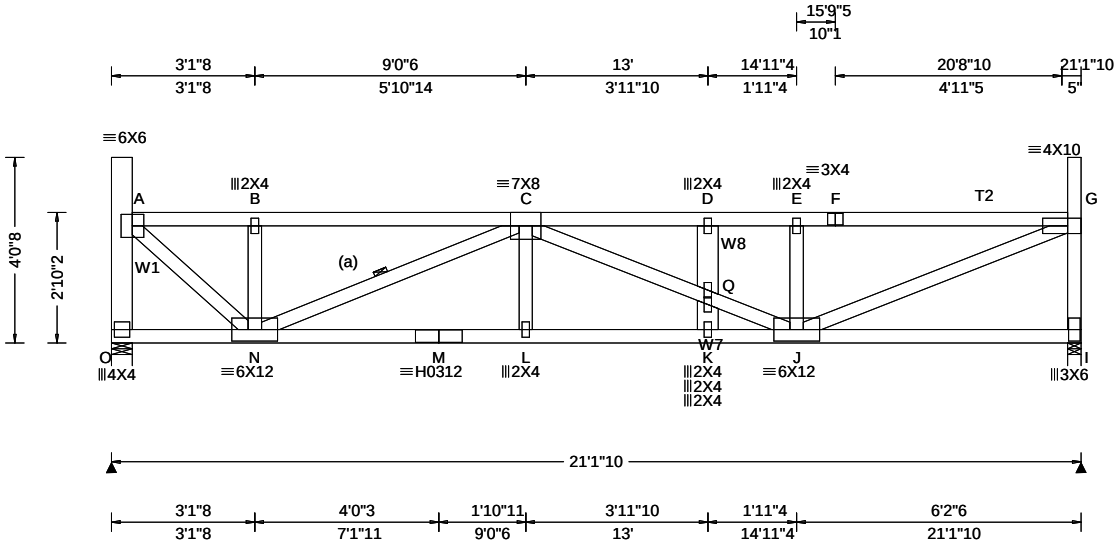
Additional Notes
Truss must be installed as shown with top chord up.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org			
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Building 11

SEQN: 37042 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T05	Cust: R 9316 JRef:1XIO93160003 T167 DrwNo: 139.22.0948.45297 / NDW 05/19/2022
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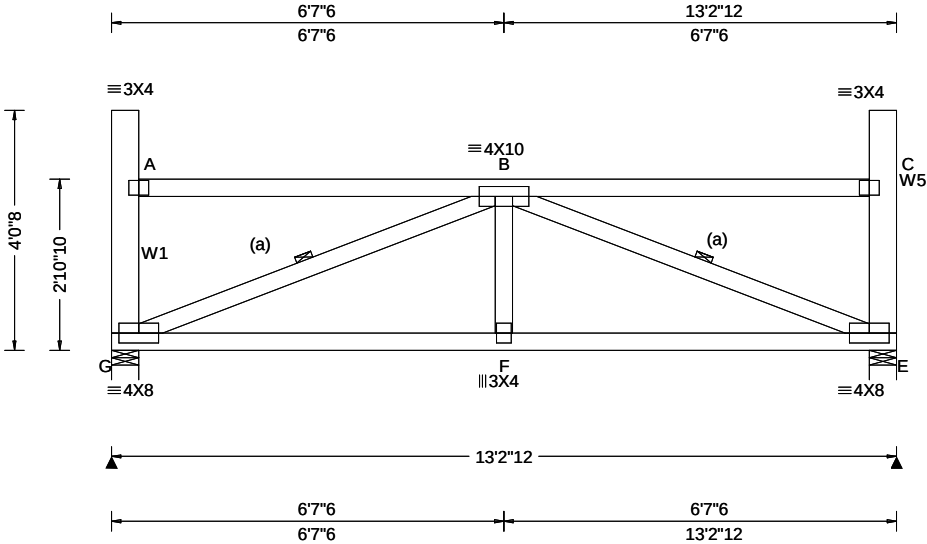
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.153 D 999 360 VERT(CL): 0.283 D 895 240 HORZ(LL): 0.034 A - - HORZ(TL): 0.063 A - - Creep Factor: 2.0 Max TC CSI: 0.626 Max BC CSI: 0.730 Max Web CSI: 0.771 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL O 1435 - / - / - /121 - / - I 1602 - / - / - /245 - / - Wind reactions based on MWFRS O Brg Wid = 5.5 Min Req = 2.1 (Truss) I Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings O & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 144 -1659 D - E 444 -3020 B - C 144 -1656 E - F 444 -3017 C - D 444 -3020 F - G 444 -3025

Lumber Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1,W7, W8 2x6 SPF 1650f-1.5E;	Additional Notes Truss must be installed as shown with top chord up.
Bracing (a) Continuous lateral restraint equally spaced on member.	
Special Loads ----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 70 plf at 0.46 to 70 plf at 20.84 BC: From 60 plf at 0.00 to 60 plf at 13.29 BC: From 30 plf at 13.29 to 30 plf at 21.14 BC: 144 lb Conc. Load at 13.29,15.07,17.07,19.07	
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 20.39 1.20 8.97 2.16 20.84 0.00 20.39 1.20 8.97 2.16 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	
Purlins The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.	
Wind Wind loads and reactions based on MWFRS. End verticals exposed to wind pressure. Deflection meets L/360.	



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SEQN: 36974 FROM:	SPEC Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T06	Cust: R 9316 JRef:1XIO93160003 T149 DrwNo: 139.22.0948.49100 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.55 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.043 F 999 360 VERT(CL): 0.080 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.028 E - - Creep Factor: 2.0 Max TC CSI: 0.546 Max BC CSI: 0.744 Max Web CSI: 0.315 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 828 /- /- /408 /59 /116 E 828 /- /- /408 /59 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1311 -166 F - E 1311 -166

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.59 1.83
12.77 0.00 20.00 1.16 7.59 1.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

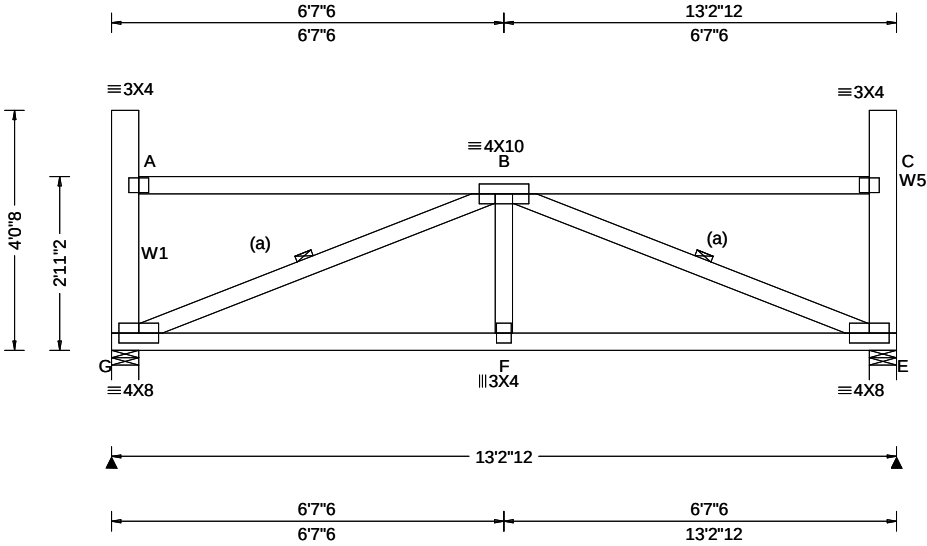


05/19/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

Building 11

SEQN: 36975 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T07	Cust: R 9316 JRef:1XIO93160003 T146 DrwNo: 139.22.0948.54373 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.042 F 999 360 VERT(CL): 0.078 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.028 E - - Creep Factor: 2.0 Max TC CSI: 0.547 Max BC CSI: 0.741 Max Web CSI: 0.312 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 828 /- /- /407 /59 /115 E 828 /- /- /407 /59 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1291 -164 F - E 1291 -164

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.11 6.20 1.50
12.77 0.00 20.00 1.11 6.20 1.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



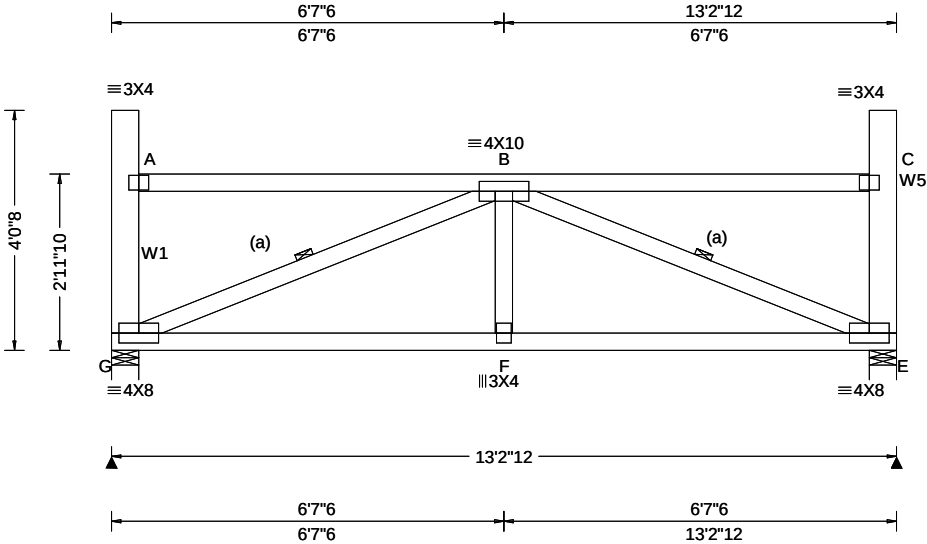
05/19/2022

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Building 11

SEQN: 36976 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08	Cust: R 9316 JRef:1XIO93160003 T150 DrwNo: 139.22.0948.59223 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.041 F 999 360 VERT(CL): 0.076 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.027 E - - Creep Factor: 2.0 Max TC CSI: 0.548 Max BC CSI: 0.738 Max Web CSI: 0.309 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 828 /- /- /407 /59 /114 E 828 /- /- /407 /59 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1271 -162 F - E 1271 -162

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



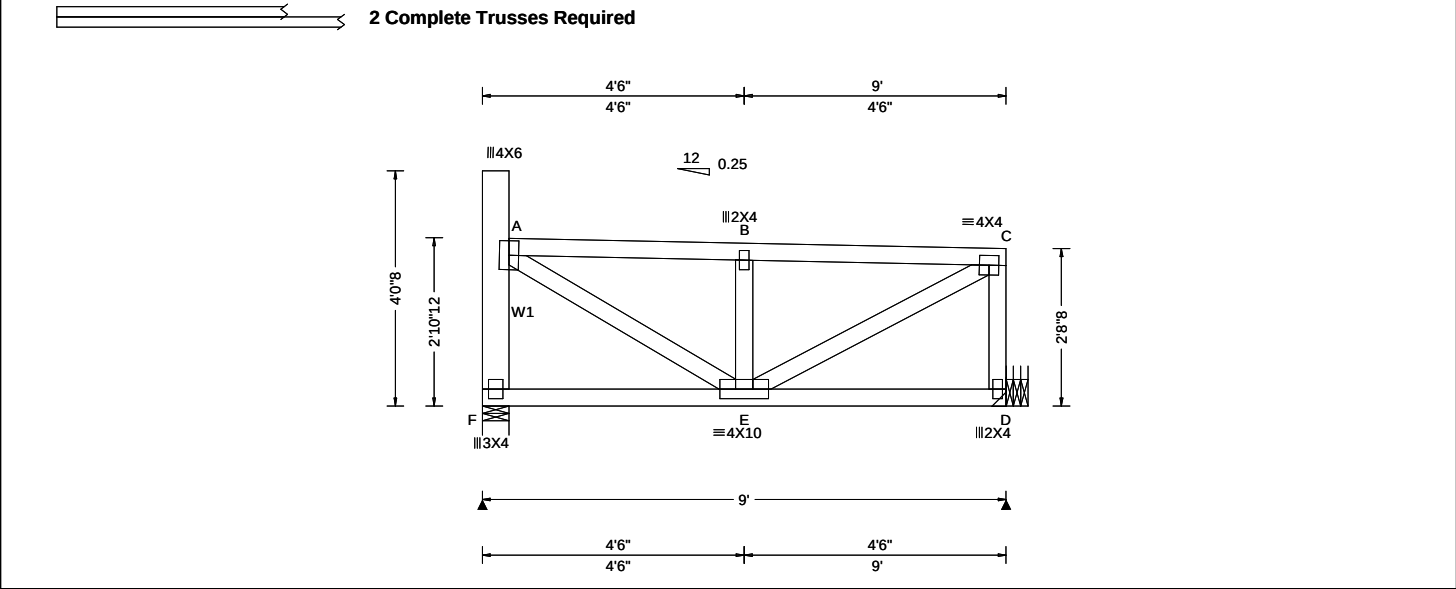
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Building 11

SEQN: 37047 FROM:	MONO Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T10	Cust: R 9316 JRef:1XIO93160003 T1 DrwNo: 139.22.0949.31840 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.46 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.015 B 999 360 VERT(CL): 0.029 B 999 240 HORZ(LL): 0.004 A - - HORZ(TL): 0.007 A - - Creep Factor: 2.0 Max TC CSI: 0.128 Max BC CSI: 0.459 Max Web CSI: 0.235 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL F 1371 /- /- /- /183 /- D 1611 /- /- /- /155 /- Wind reactions based on MWFRS F Brg Wid = 5.5 Min Req = 1.5 (Truss) D Brg Wid = - Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 100 -859 B - C 100 -860

Lumber	Additional Notes	Maximum Web Forces Per Ply (lbs)
Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100F-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650F-1.5E;	Truss must be installed as shown with top chord up. Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.	Webs Tens.Comp. Webs Tens. Comp. F - A 54 -490 E - C 959 -112 A - E 909 -102 C - D 58 -507

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 60 plf at 0.00 to 60 plf at 2.33
BC: From 30 plf at 2.33 to 30 plf at 9.00
BC: 762 lb Conc. Load at 2.33
BC: 527 lb Conc. Load at 4.33, 6.33, 8.33

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.84
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.



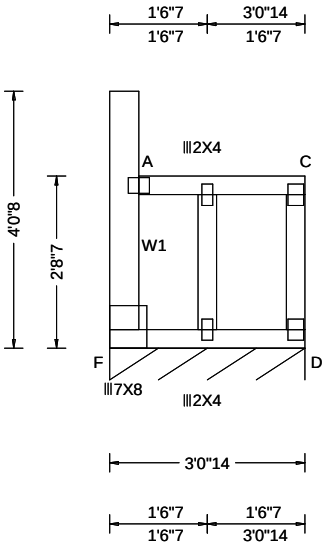
05/19/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36978 FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T11	Cust: R 9316 JRef:1XIO93160003 T187 DrwNo: 139.22.1000.04690 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 360 VERT(CL): 0.009 A 999 240 HORZ(LL): 0.117 A - - HORZ(TL): 0.136 A - - Creep Factor: 2.0 Max TC CSI: 0.116 Max BC CSI: 0.326 Max Web CSI: 0.142 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 120 /- /- /56 /5 /30 Wind reactions based on MWFRS D Brg Wid = 36.9 Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.34 13.63 2.61
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, &
GABRST160118 for gable wind bracing and other
requirements.
Truss must be installed as shown with top chord up.



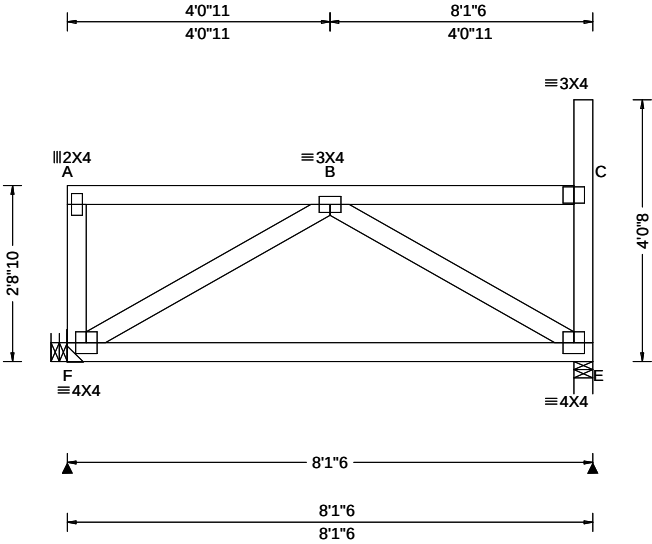
05/19/2022

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Building 11

SEQN: 36979 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T12	Cust: R 9316 JRef:1XIO93160003 T110 DrwNo: 139.22.1000.21780 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.004 B 999 360 VERT(CL): 0.008 B 999 240 HORZ(LL): 0.002 E - - HORZ(TL): 0.003 E - - Creep Factor: 2.0 Max TC CSI: 0.217 Max BC CSI: 0.611 Max Web CSI: 0.204 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				F	527	/-	/-	/270	/46	/93
				E	507	/-	/-	/255	/47	/-
				Wind reactions based on MWFRS						
				F Brg Wid = - Min Req = -						
				E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
				Bearing E is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.32 13.12 3.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

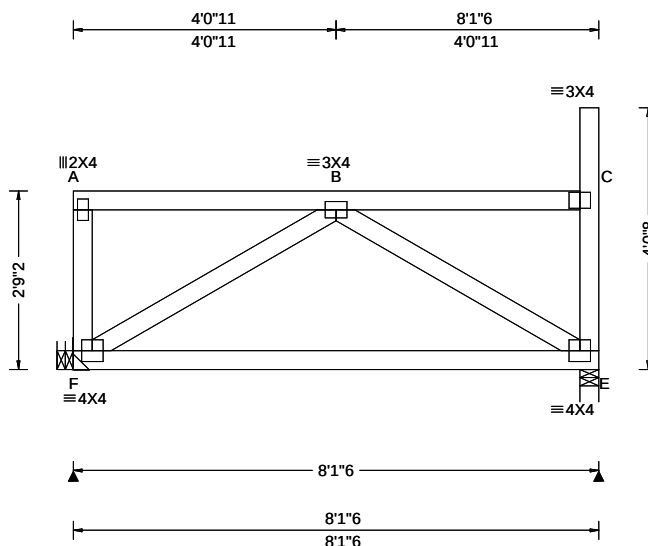


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Building 11

SEQN: 36980	FLAT	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1Xf093160003 T229
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.1000.44667
			Truss Label: T13	/ NDW 05/19/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL): 0.004 B 999 360		Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL): 0.008 B 999 240		F	527	/-	/-	/270	/46	/92
BCDL:	15.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL): 0.002 E - -		E	507	/-	/-	/255	/47	/-
Des Ld: 65.00		EXP:	B Kzt: NA			HORZ(TL): 0.003 E - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height:	22.43 ft	Building Code:		Creep Factor: 2.0		F Brg Wid = - Min Req = -						
Soffit: 2.00		TCDL:	5.0 psf	IBC 2018		Max TC CSI: 0.217		E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Load Duration: 1.15		BCDL:	3.0 psf	TPI Std: 2014		Max BC CSI: 0.611		Bearing E is a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist:	0 to h/2	Rep Fac: Yes		Max Web CSI: 0.204		Members not listed have forces less than 375#						
		C&C Dist a:	3.00 ft	FT/RT:20(0)/10(0)										
		Loc. from endwall:	Any	Plate Type(s):										
		GCpi:	0.18	WAVE										
		Wind Duration:	1.60			VIEW Ver: 21.02.00.1005.17								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2:

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load. W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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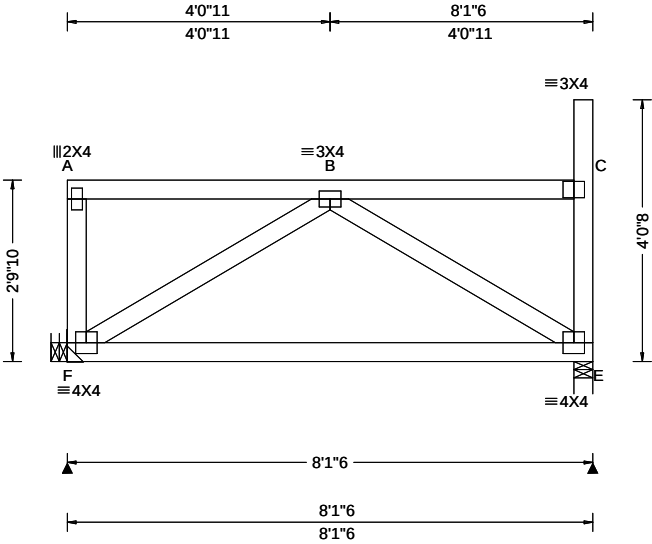
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36981 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T14	Cust: R 9316 JRef:1XIO93160003 T206 DrwNo: 139.22.1000.47867 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	F	527	/-	/-	/270	/46	/92
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.007 B 999 240	E	507	/-	/-	/255	/47	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	F	Brg Wid = -		Min Req = -			
NCBCLL: 0.00	Mean Height: 22.47 ft	Building Code:	Creep Factor: 2.0	E	Brg Wid = 3.5		Min Req = 1.5 (Truss)			
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.218	Bearing E is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.610	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.203							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

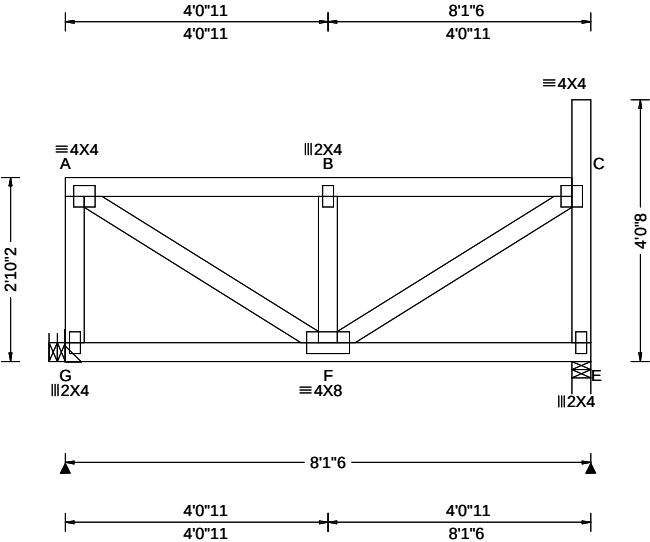


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SEQN: 37044 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T15	Cust: R 9316 JRef:1XIO93160003 T212 DrwNo: 139.22.1000.52200 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	G	762	/-	/-	/-	/172	/-
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.012 B 999 360	E	607	/-	/-	/-	/114	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.021 B 999 240	Wind reactions based on MWFRS						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): -0.002 C - -	G Brg Wid = - Min Req = -						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.004 C - -	E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
NCBCLL: 0.00	Mean Height: 22.51 ft	Building Code:	Creep Factor: 2.0	Bearing E is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.239	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.340	Maximum Top Chord Forces Per Ply (lbs)						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.190	Chords	Tens.Comp.		Chords	Tens. Comp.		
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		A - B	138	-667	B - C	138	-671	
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF #1/#2; Webs: 2x4 SPF #1/#2; Special Loads	Maximum Web Forces Per Ply (lbs)					
	Webs		Tens.Comp.		Tens. Comp.	
	A - G		94 - 528		F - C 745 - 155	
	A - F		773 - 160		C - E 93 - 510	

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.20 8.97 2.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

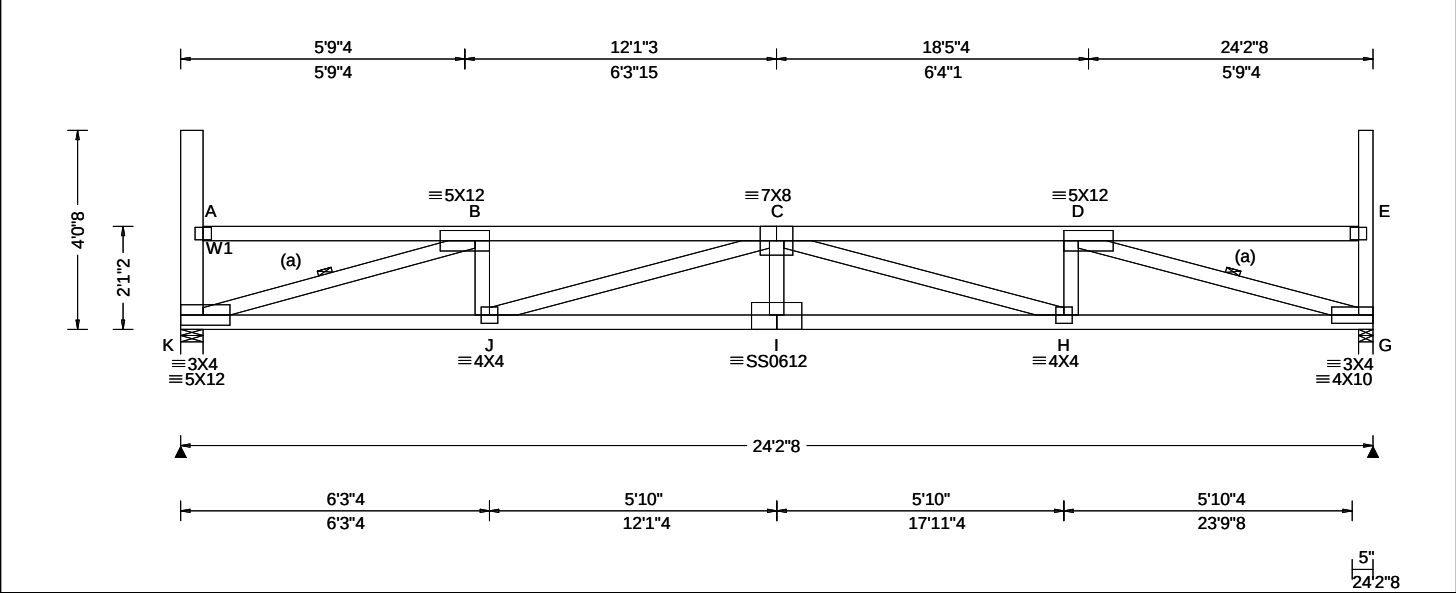
Additional Notes
Truss must be installed as shown with top chord up.



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Building 11

SEQN: 36982 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T17	Cust: R 9316 JRef:1XIO93160003 T175 DrwNo: 139.22.1001.03370 / NDW 05/19/2022
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Loading Criteria (psf)	TCLL: 20.00	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.76 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.387 I 750 360 VERT(CL): 0.720 I 403 240 HORZ(LL): 0.078 G - - HORZ(TL): 0.146 G - - Creep Factor: 2.0 Max TC CSI: 0.758 Max BC CSI: 0.718 Max Web CSI: 0.883 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
	TCDL: 15.00				Gravity			Non-Gravity			
	BCLL: 15.00				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCDL: 15.00				K	1541	/-	/-	/733	/84	/139
	Des Ld: 65.00				G	1553	/-	/-	/738	/86	/-
	NCBCLL: 0.00				Wind reactions based on MWFRS						
	Soffit: 2.00				K Brg Wid = 5.5 Min Req = 2.0 (Truss)						
	Load Duration: 1.15				G Brg Wid = 3.5 Min Req = 2.0 (Truss)						
	Spacing: 24.0 "				Bearings K & G are a rigid surface.						
					Members not listed have forces less than 375#						
	Maximum Top Chord Forces Per Ply (lbs)										
	Chords		Tens.Comp.		Chords		Tens. Comp.				
	B - C	254	- 4208	C - D	254	- 4222					

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.95 33.87 4.20
23.92 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.39" DL: 0.33". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



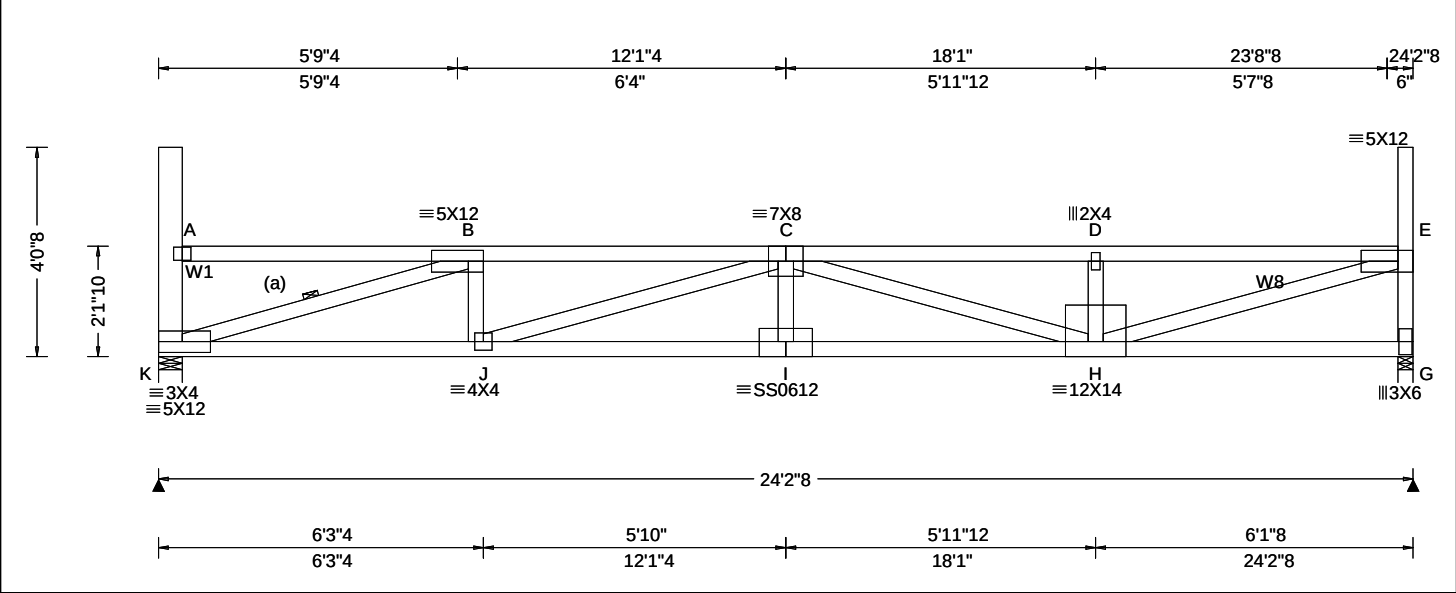
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37054 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T18	Cust: R 9316 JRef:1XIO93160003 T180 DrwNo: 139.22.1001.08417 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.372 I 780 360	K	1542	/-	/-	/733	/85	/138
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.692 I 419 240	G	1553	/-	/-	/737	/87	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.061 A - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.114 A - -	K Brg Wid = 5.5 Min Req = 2.0 (Truss)						
	Creep Factor: 2.0		G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
NCBCLL: 0.00	Mean Height: 21.80 ft	IBC 2018	Max TC CSI: 0.939	Bearings K & G are a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.711	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	Rep Fac: Yes	Max Web CSI: 0.846	Maximum Top Chord Forces Per Ply (lbs)						
	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)		Chords Tens.Comp. Chords Tens. Comp.						
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Plate Type(s):		B - C	249	-4117	D - E	253	-4107	
	Loc. from endwall: Any	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	C - D	252	-4102				
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.91	32.49 4.38
	23.92	0.00	23.46	1.91	32.49 4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.32". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



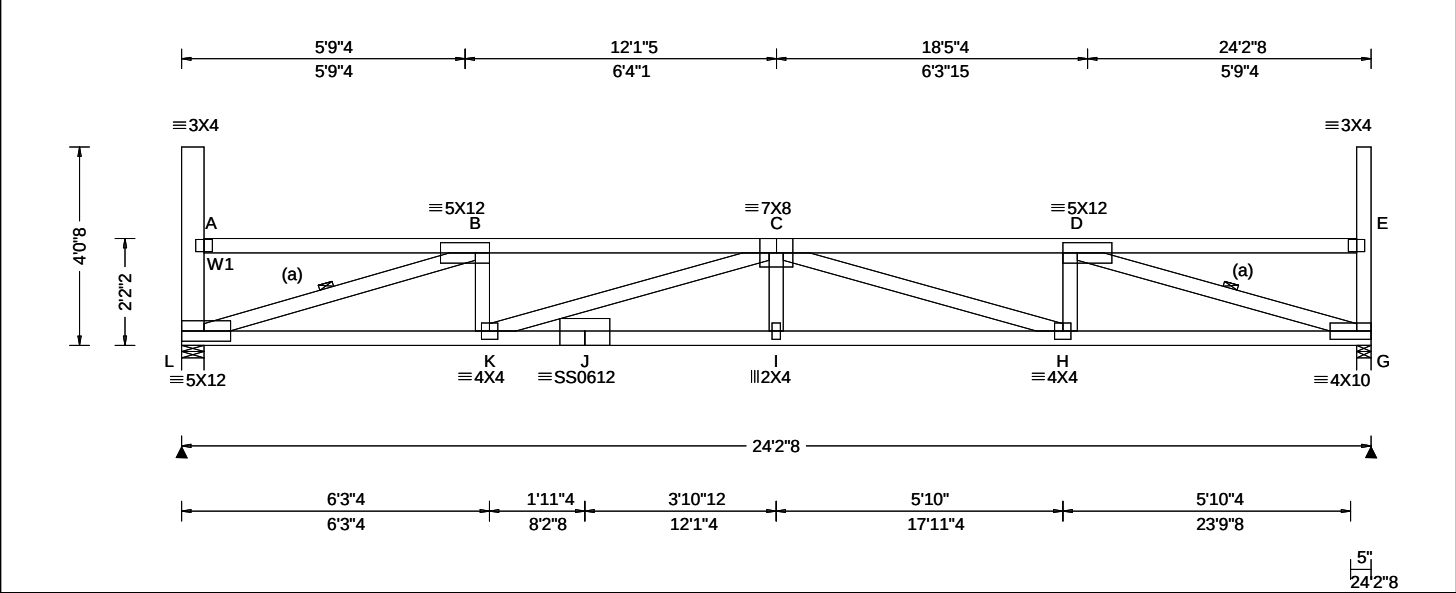
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Building 11

SEQN: 36984 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T19	Cust: R 9316 JRef:1XIO93160003 T171 DrwNo: 139.22.1001.14067 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.84 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.356 I 817 360 VERT(CL): 0.661 I 439 240 HORZ(LL): 0.075 G - - HORZ(TL): 0.139 G - - Creep Factor: 2.0 Max TC CSI: 0.703 Max BC CSI: 0.691 Max Web CSI: 0.853 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /85 /136 G 1553 /- /- /737 /87 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 244 -4029 C - D 244 -4040

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



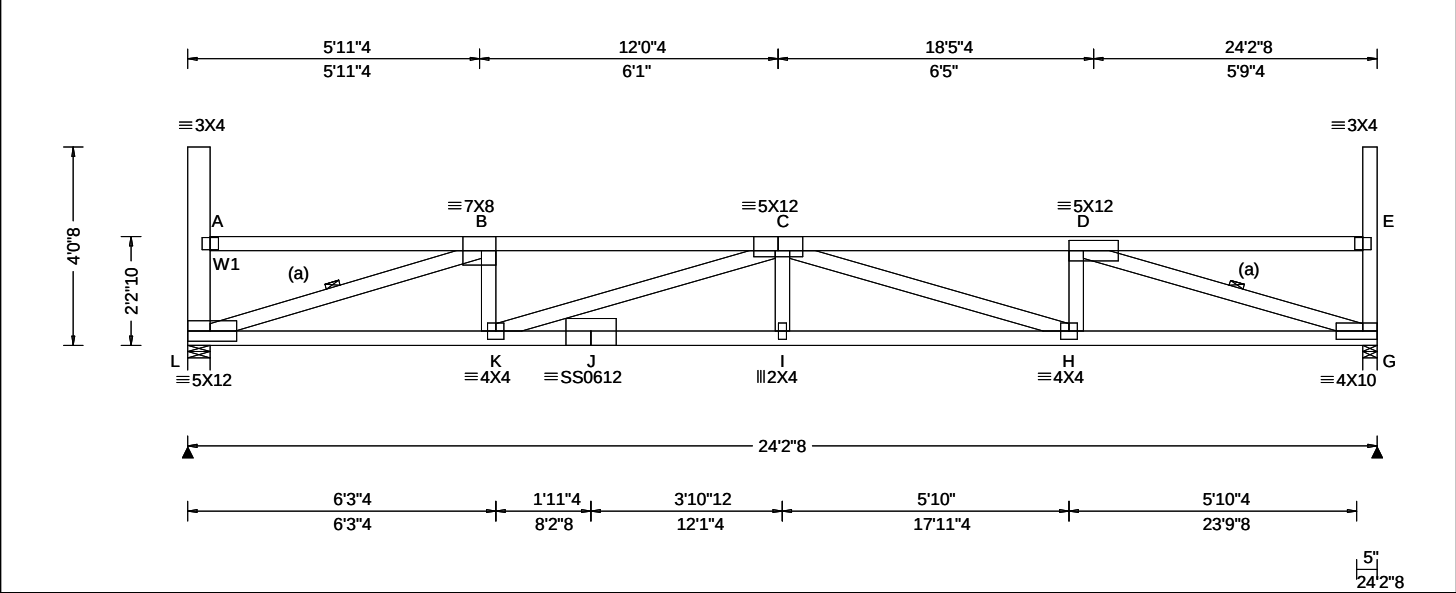
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Building 11

SEQN: 36985 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T20	Cust: R 9316 JRef:1XIO93160003 T179 DrwNo: 139.22.1001.40657 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.341 I 851 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.634 I 457 240	L	1542	/-	/-	/732	/85	/135
	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.073 G - -	G	1553	/-	/-	/737	/87	/-
	EXP: B Kzt: NA		HORZ(TL): 0.137 G - -	Wind reactions based on MWFRS						
	Mean Height: 21.89 ft		Creep Factor: 2.0	L	Brg Wid = 5.5		Min Req = 2.0 (Truss)			
	TCDL: 5.0 psf		Max TC CSI: 0.680	G	Brg Wid = 3.5		Min Req = 2.0 (Truss)			
	BCDL: 3.0 psf		Max BC CSI: 0.681	Bearings L & G are a rigid surface.						
	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.839	Members not listed have forces less than 375#						
C&C Dist a: 3.00 ft			Maximum Top Chord Forces Per Ply (lbs)							
Loc. from endwall: Any			Chords	Tens.Comp.		Chords	Tens. Comp.			
GCpi: 0.18			B - C	240 -3945		C - D	240 -3955			
Wind Duration: 1.60										

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.82 29.72 4.79
23.92 0.00 23.46 1.82 29.72 4.79
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

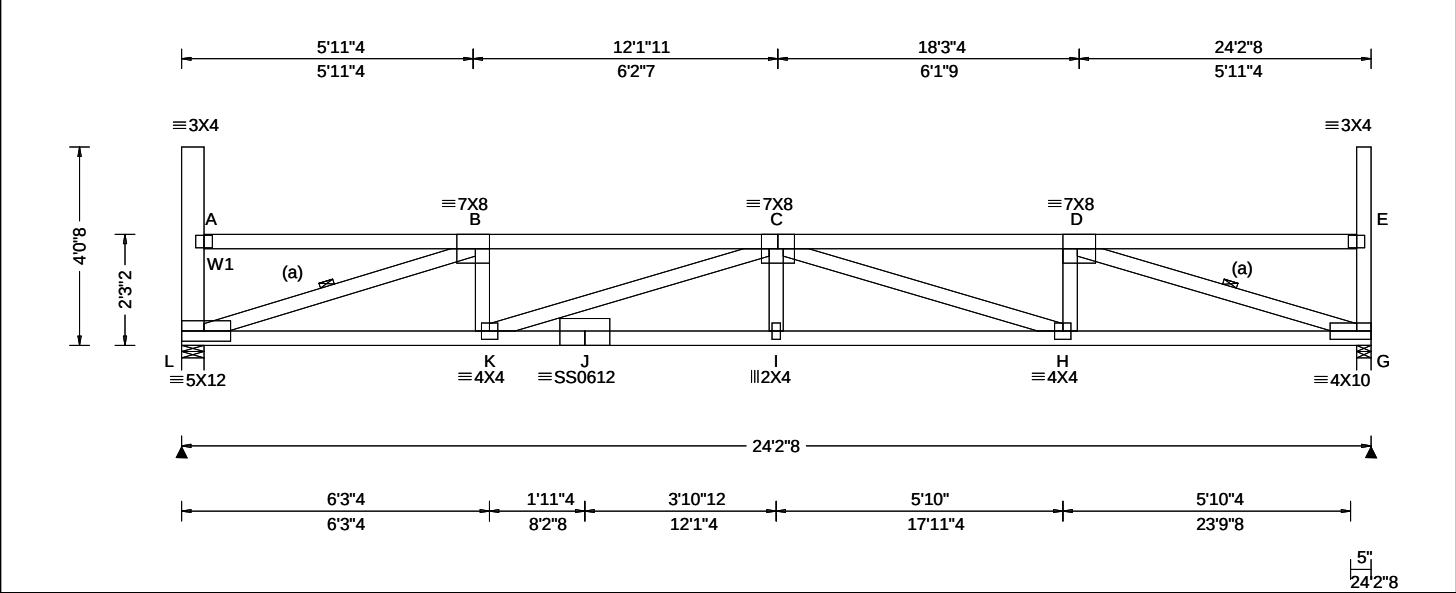
Additional Notes
Truss must be installed as shown with top chord up.



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Building 11

SEQN: 36986 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T21	Cust: R 9316 JRef:1XIO93160003 T183 DrwNo: 139.22.1001.45153 / NDW 05/19/2022
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Loading Criteria (psf) TCCL: 20.00 TCDL: 15.00 BCCL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.93 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.327 I 887 360 VERT(CL): 0.608 I 477 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.134 G - - Creep Factor: 2.0 Max TC CSI: 0.656 Max BC CSI: 0.671 Max Web CSI: 0.824 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1540 /- /- /732 /85 /134 G 1552 /- /- /737 /87 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 211 -3859 C - D 211 -3870					
				Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3748 -342 I - H 4963 -304 K - J 4963 -304 H - G 3757 -207 J - I 4963 -304 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 238 -3851 C - H 129 -1153 B - K 759 -1 H - D 773 0 K - C 130 -1164 D - G 235 -3902					

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.78 28.34 5.03
23.92 0.00 23.46 1.78 28.34 5.03
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022

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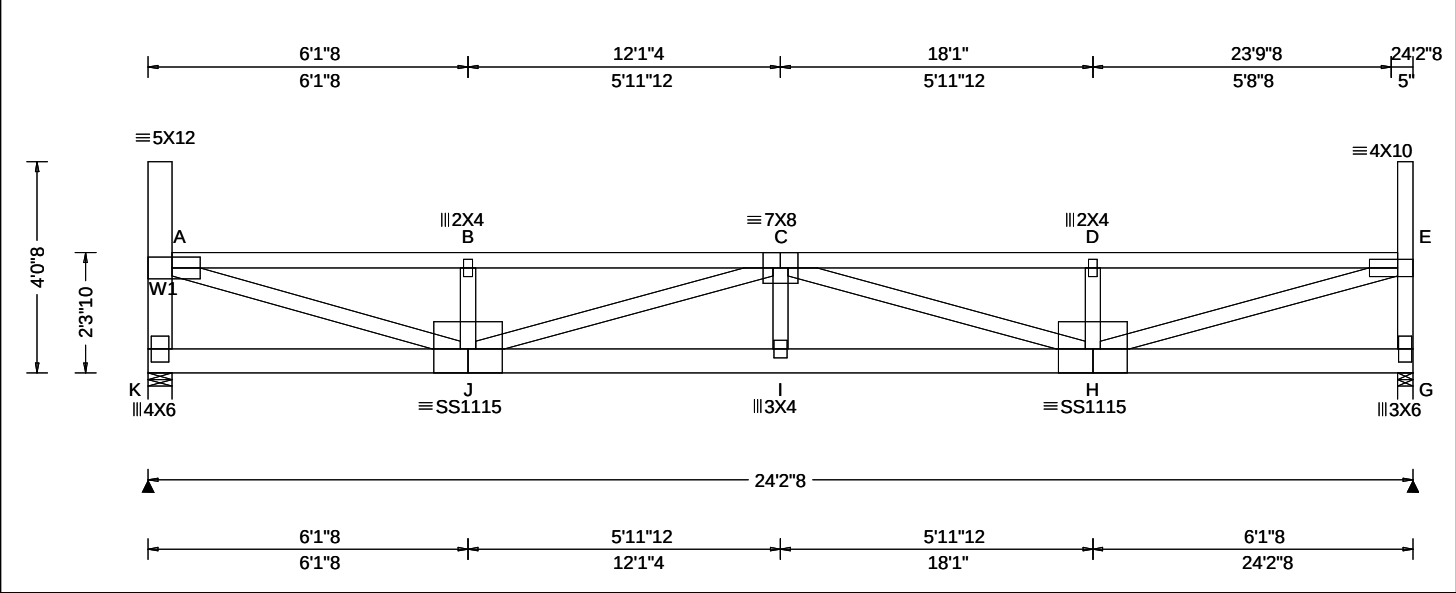
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36987 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T22	Cust: R 9316 JRef:1XIO93160003 T174 DrwNo: 139.22.1001.49203 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.97 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.324 I 897 360 VERT(CL): 0.602 I 482 240 HORZ(LL): 0.051 A - - HORZ(TL): 0.095 A - - Creep Factor: 2.0 Max TC CSI: 0.894 Max BC CSI: 0.641 Max Web CSI: 0.959 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1542 -/- /- /732 /85 /129 G 1553 -/- /- /737 /87 -/ Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.4 (Truss) G Brg Wid = 3.5 Min Req = 2.4 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 217 -3844 C - D 216 -3846 B - C 216 -3839 D - E 217 -3851

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.74 26.95 5.28
23.92 0.00 23.46 1.74 26.95 5.28
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



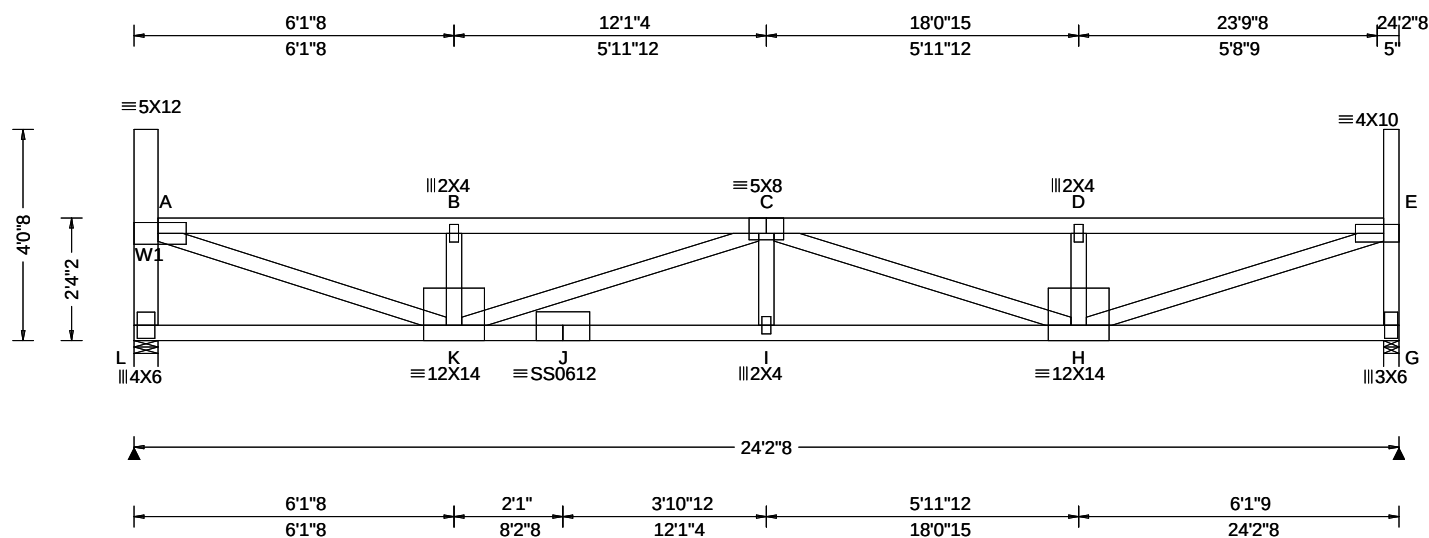
05/19/2022

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Building 11

SEQN: 36988	FLAT	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1Xf093160003 T184
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.1001.55453
			Truss Label: T23	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.318 I 914 360	L 1542 -/- /- /732 /85 /132
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.591 I 491 240	G 1553 -/- /- /737 /87 -/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.054 A - -	Wind reactions based on MWFRS
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.100 A - -	L Brg Wid = 5.5 Min Req = 2.0 (Truss)
NCBCLL: 0.00	Mean Height: 22.01 ft	Building Code:	Creep Factor: 2.0	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.862	Bearings L & G are a rigid surface.
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.651	Members not listed have forces less than 375#
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.924	Maximum Top Chord Forces Per Ply (lbs)
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Chords Tens.Comp. Chords Tens. Comp.
	Loc. from endwall: not in 14.50 ft GCpi: 0.18	Plate Type(s):		A - B 209 - 3686 C - D 209 - 3691
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	D - E 209 - 3692

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.70	25.57	5.57
23.92	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load. W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

05/19/2022
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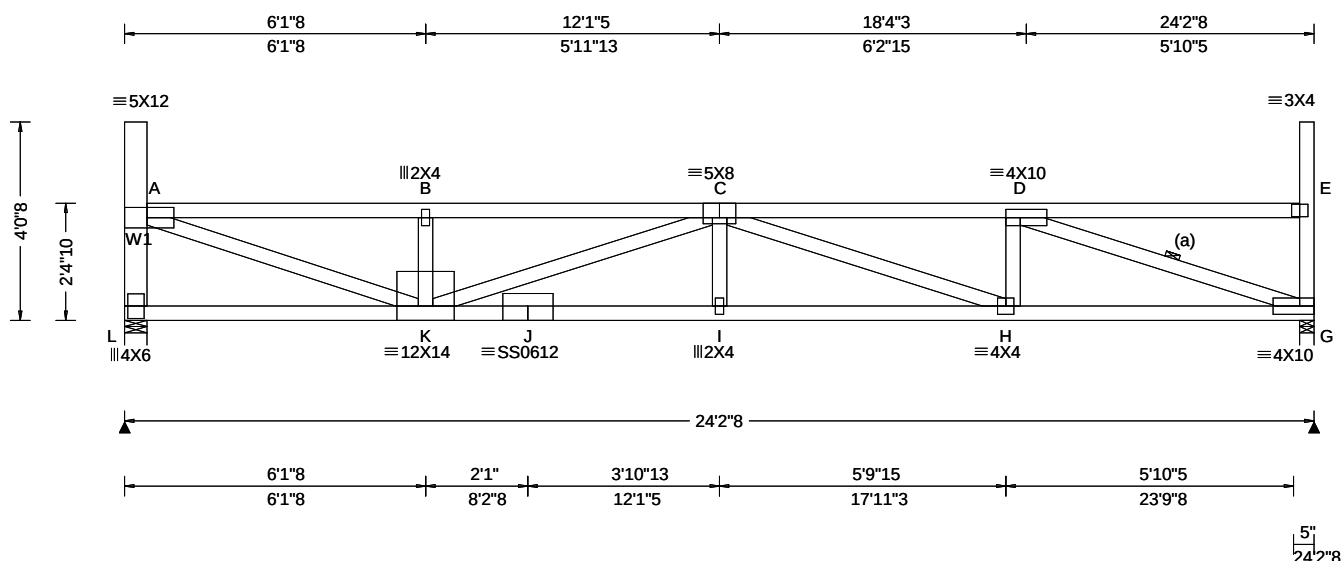
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36989	FLAT	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1XIO93160003 T176
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.1002.03703
			Truss Label: T24	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE_18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.298 I 973 360 VERT(CL): 0.555 I 523 240 HORZ(LL): 0.054 G - - HORZ(TL): 0.100 G - - Creep Factor: 2.0 Max TC CSI: 0.822 Max BC CSI: 0.647 Max Web CSI: 0.890	Gravity Loc R+ /R- /Rh Non-Gravity / Rw /U /RL L 1542 /- /- /732 /85 /131 G 1553 /- /- /737 /87 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.
Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "			VIEW Ver: 21.02.00.1005.17	A - B 206 - 3615 C - D 202 - 3649

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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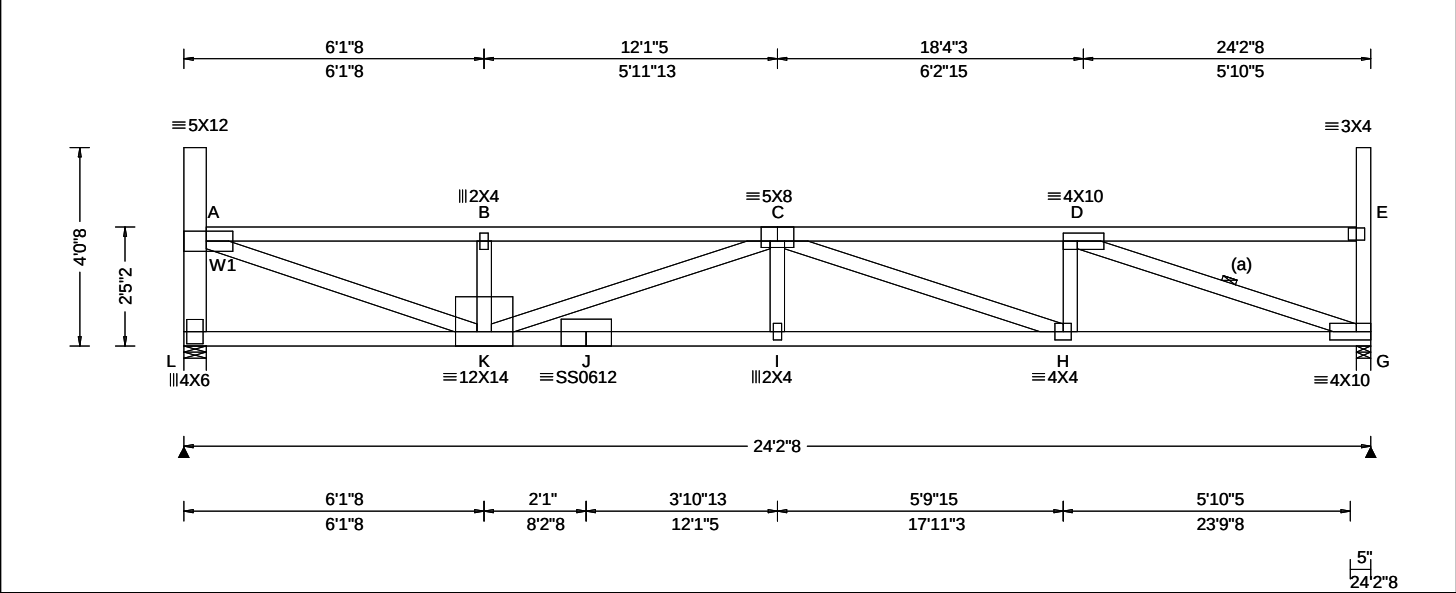
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36990 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T25	Cust: R 9316 JRef:1XIO93160003 T172 DrwNo: 139.22.1012.18290 / NDW 05/19/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.287 I 999 360 VERT(CL): 0.534 I 543 240 HORZ(LL): 0.053 G - - HORZ(TL): 0.098 G - - Creep Factor: 2.0 Max TC CSI: 0.793 Max BC CSI: 0.641 Max Web CSI: 0.875 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
	L	1542	/-	/-	/732	/85	/129			
	G	1553	/-	/-	/737	/87	/-			
	Wind reactions based on MWFRS									
	L Brg Wid = 5.5 Min Req = 2.0 (Truss)									
	G Brg Wid = 3.5 Min Req = 2.0 (Truss)									
	Bearings L & G are a rigid surface.									
	Members not listed have forces less than 375#									
Maximum Top Chord Forces Per Ply (lbs)										
Chords			Tens.Comp.		Chords			Tens. Comp.		
A - B	202 - 3547		C - D			198 - 3579				
B - C	201 - 3542									

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	
Bracing	

Maximum Bot Chord Forces Per Ply (lbs)							
Chords		Tens.Comp.		Chords		Tens. Comp.	
K - J	4587	- 288		I - H	4587	- 288	
J - I	4587	- 288		H - G	3475	- 199	

Bracing							Maximum Web Forces Per Ply (lbs)									
(a) Continuous lateral restraint equally spaced on member.							Webs		Tens.Comp.		Webs		Tens. Comp.			
Drifting snow load has been considered for only in plane loading as follows:							L - A		100 - 1373		C - H		109 - 1074			
Location							Lu1		Lu2		Height		Pd		W	
46							2.00		23.45		1.61		23.80		5.50	
							K - C		110 - 1110		D - G		221 - 3642			

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.61 22.80 5.50
23.92 0.00 23.46 1.61 22.80 5.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

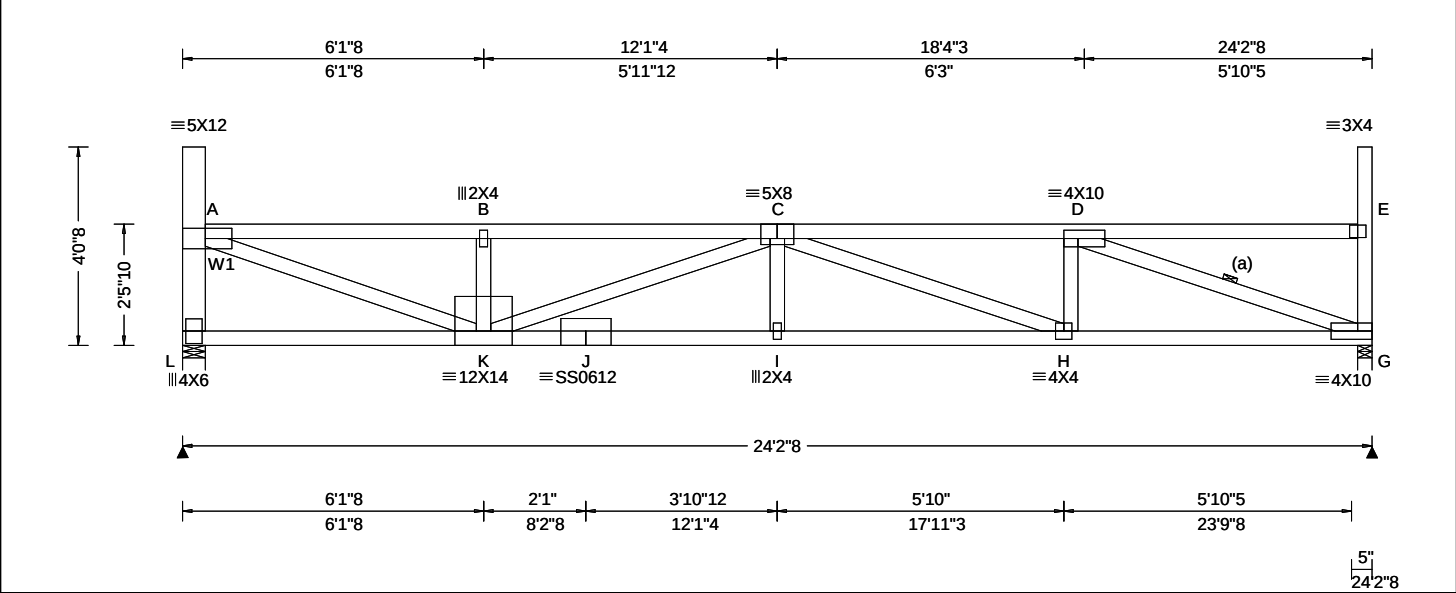


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Building 11

SEQN: 36991 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T26	Cust: R 9316 JRef:1XIO93160003 T173 DrwNo: 139.22.1012.25377 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.277 I 999 360 VERT(CL): 0.515 I 563 240 HORZ(LL): 0.052 G - - HORZ(TL): 0.096 G - - Creep Factor: 2.0 Max TC CSI: 0.754 Max BC CSI: 0.635 Max Web CSI: 0.860 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /86 /128 G 1553 /- /- /737 /88 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 199 -3480 C - D 195 -3512 B - C 198 -3475

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



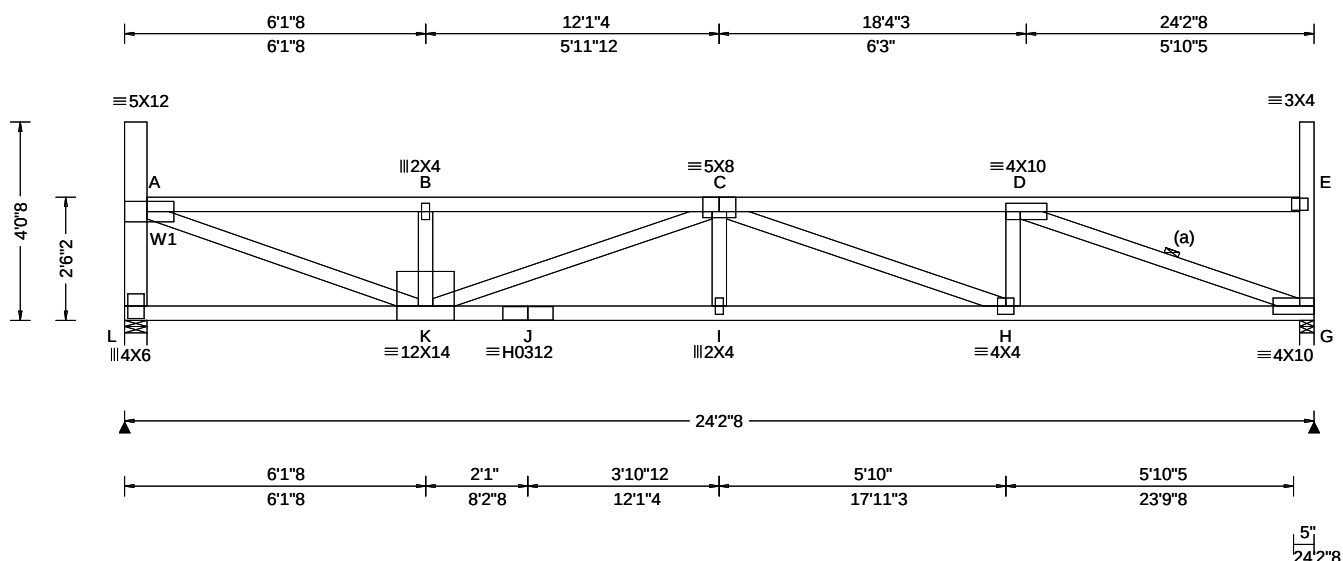
05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 11

SEQN: 36992	FLAT	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1XIO93160003 T157
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.1012.30043
			Truss Label: T27	/ NDW 05/19/2022

[illegible]

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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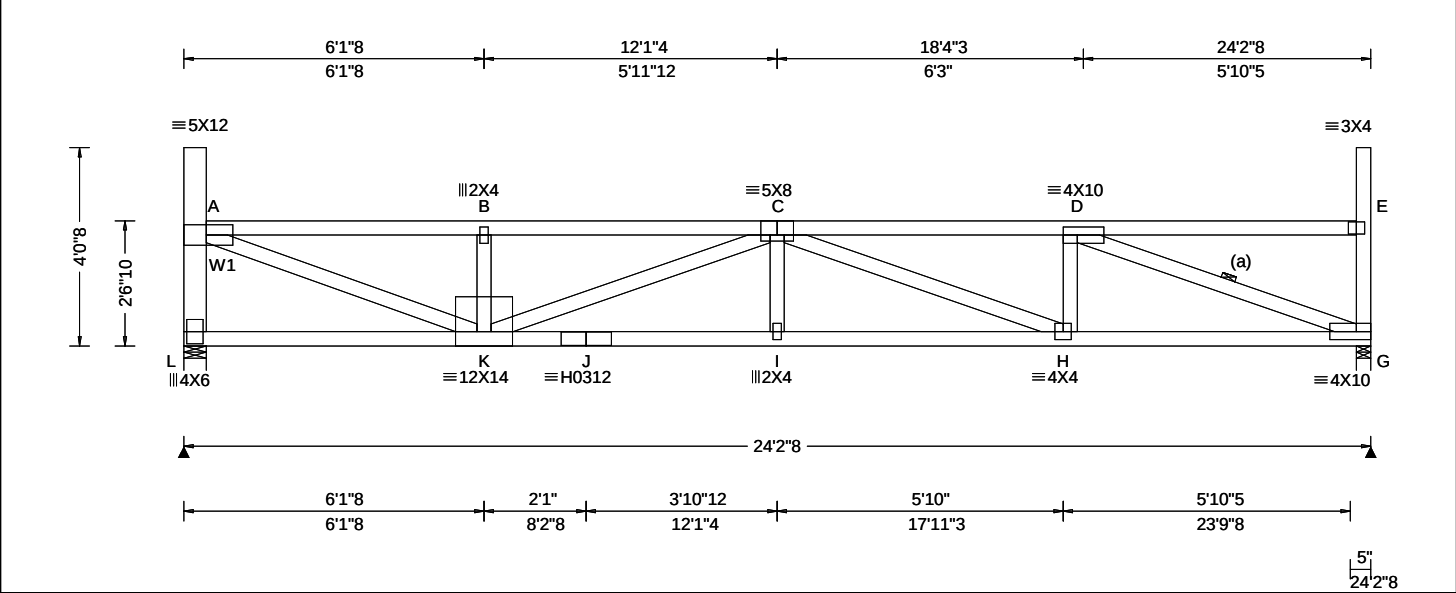
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbaccomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36993 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T28	Cust: R 9316 JRef:1XIO93160003 T181 DrwNo: 139.22.1012.35600 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity						
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	L	1542	/-	/-	/731	/86	/126
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	G	1553	/-	/-	/736	/88	/-
	Des Ld: 65.00	EXP: B Kzt: NA		Wind reactions based on MWFRS						
	NCBCLL: 0.00	Mean Height: 22.22 ft	Building Code:	L	Brg Wid = 5.5 Min Req = 2.0 (Truss)					
	Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	G	Brg Wid = 3.5 Min Req = 2.0 (Truss)					
	Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Bearings L & G are a rigid surface.						
	Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: not in 14.50 ft	Plate Type(s):	Chords	Tens.Comp.	Chords	Tens. Comp.				
	GCpi: 0.18		A - B	193	- 3355	C - D	189	- 3386		
	Wind Duration: 1.60	WAVE, HS	B - C	192	- 3350					
			VIEW Ver: 21.02.00.1005.17							

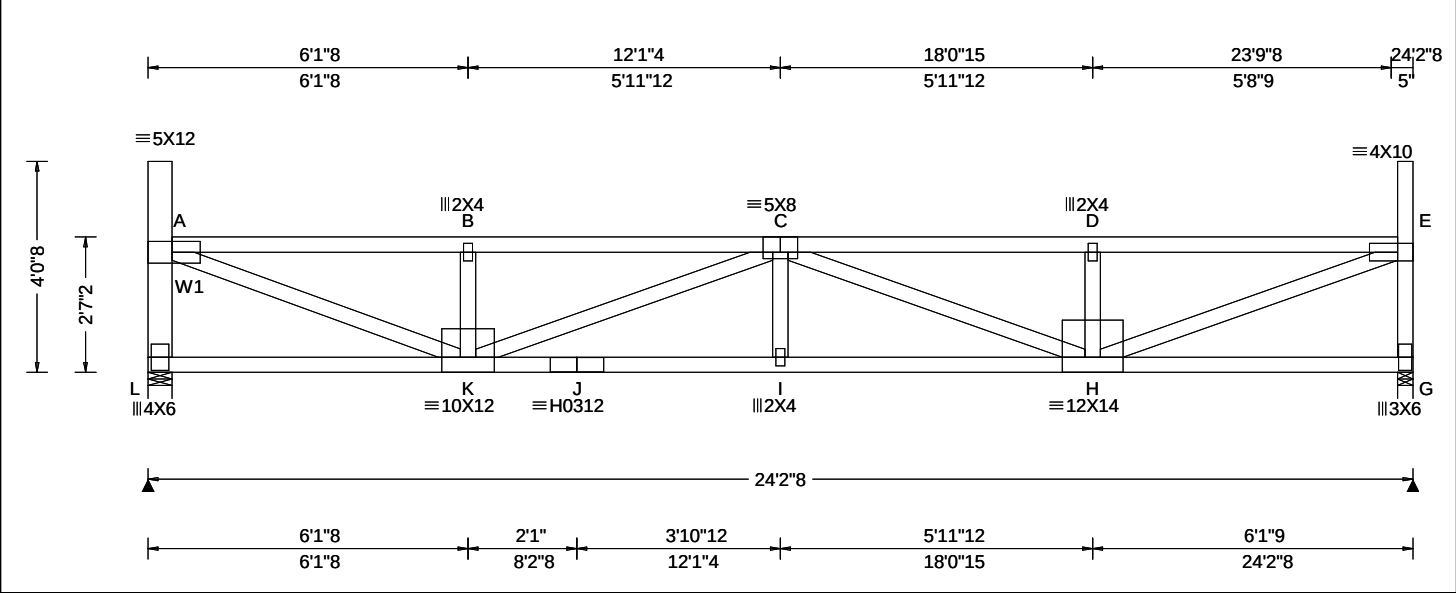
Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Maximum Bot Chord Forces Per Ply (lbs)							
	Chords		Tens.Comp.		Chords		Tens. Comp.	
	K - J		4336 - 276		I - H		4336 - 276	
	J - I		4336 - 276		H - G		3287 - 193	
Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Web Forces Per Ply (lbs)							
	Webs		Tens.Comp.		Webs		Tens. Comp.	
	L - A		100 - 1374		C - H		103 - 1020	
	A - K		3391 - 212		H - D		772 - 0	
	K - C		103 - 1054		D - G		211 - 3469	
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 10 0.00 23.46 10 12.65 4.50 23.92 0.00 23.46 10 12.65 4.50 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.								

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	
Deflection Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.	
Additional Notes Truss must be installed as shown with top chord up.	

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Building 11

SEQN: 36994 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T29	Cust: R 9316 JRef:1XIO93160003 T182 DrwNo: 139.22.1012.42393 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.476 I 610 240 HORZ(LL): 0.049 A - - HORZ(TL): 0.090 A - - Creep Factor: 2.0 Max TC CSI: 0.694 Max BC CSI: 0.608 Max Web CSI: 0.836 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /86 /125 G 1553 /- /- /736 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 190 -3295 C - D 189 -3299 B - C 189 -3291 D - E 190 -3304

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.45 17.27 4.16
23.92 0.00 23.46 1.45 17.27 4.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



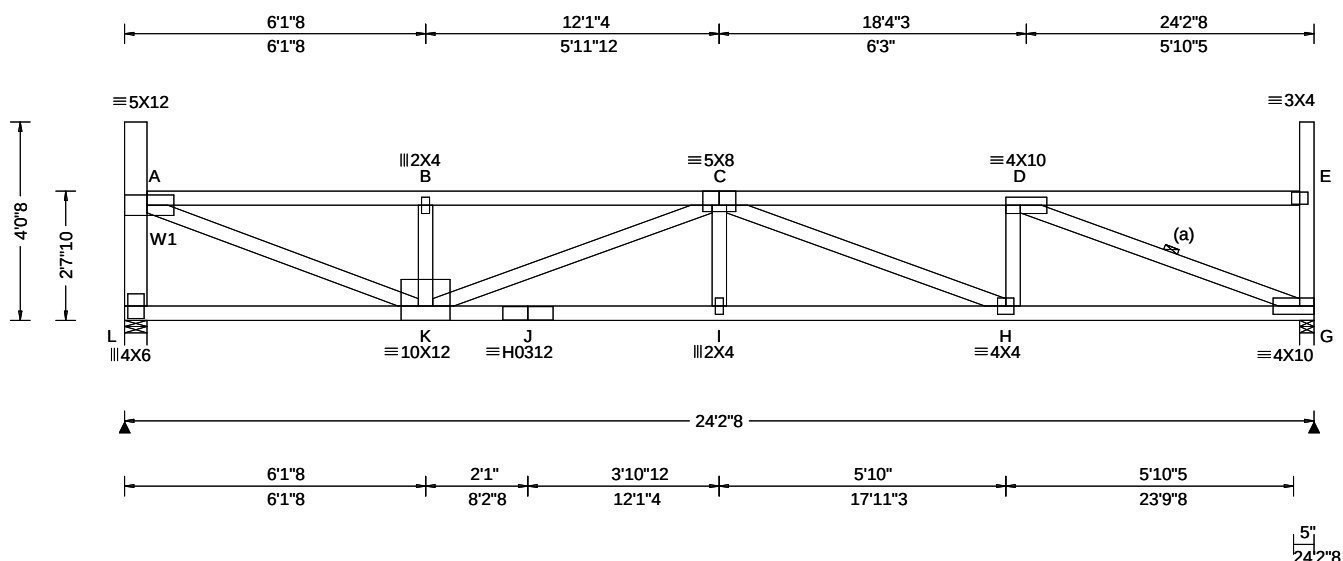
05/19/2022

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Building 11

SEQN: 36995	FLAT	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1XIO93160003 T178
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.1012.48447
			Truss Label: T30	/ NDW 05/19/2022

[illegible]

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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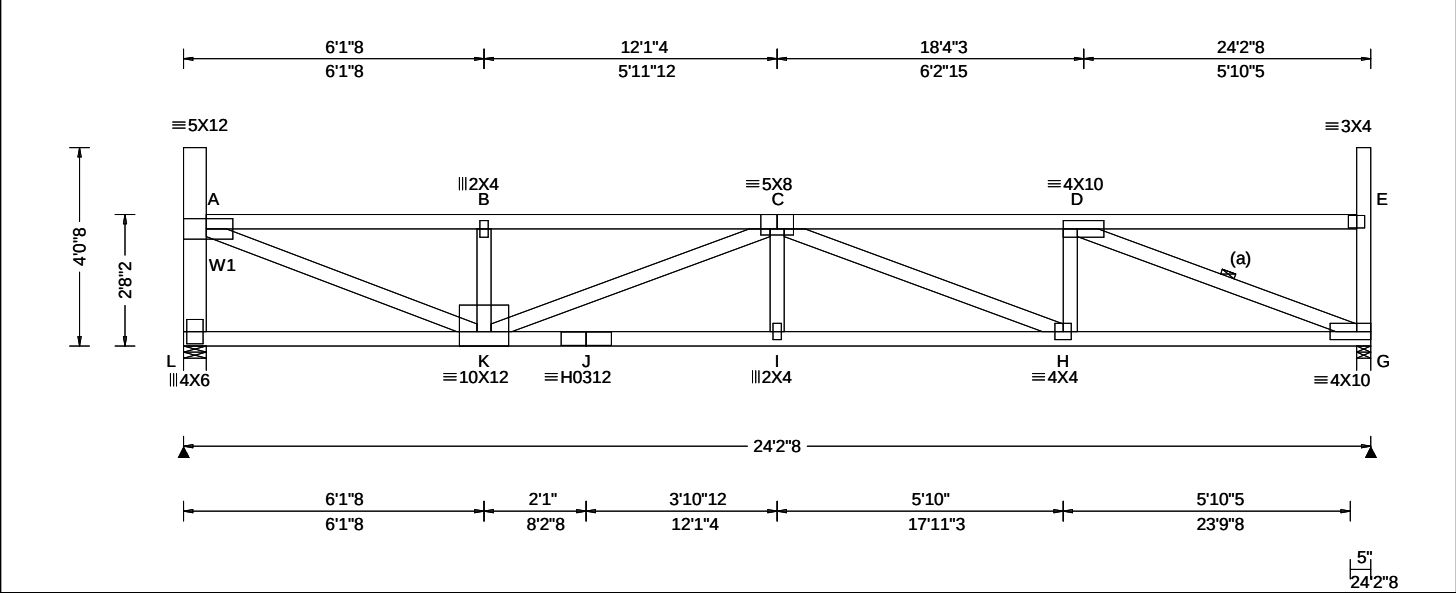
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36996 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T31	Cust: R 9316 JRef:1XIO93160003 T185 DrwNo: 139.22.1012.56007 / NDW 05/19/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.234 I 999 360 VERT(CL): 0.435 I 668 240 HORZ(LL): 0.047 G - - HORZ(TL): 0.088 G - - Creep Factor: 2.0 Max TC CSI: 0.637 Max BC CSI: 0.606 Max Web CSI: 0.794 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				L	1542	/-	/-	/731	/86	/122
				G	1553	/-	/-	/736	/88	/-
				Wind reactions based on MWFRS						
				L Brg Wid = 5.5 Min Req = 2.0 (Truss)						
				G Brg Wid = 3.5 Min Req = 2.0 (Truss)						
				Bearings L & G are a rigid surface.						
				Members not listed have forces less than 375#						
			Maximum Top Chord Forces Per Ply (lbs)							
			Chords		Tens.Comp.		Chords		Tens. Comp.	
			A - B	184 - 3183		C - D		180 - 3211		
			B - C	183 - 3178						

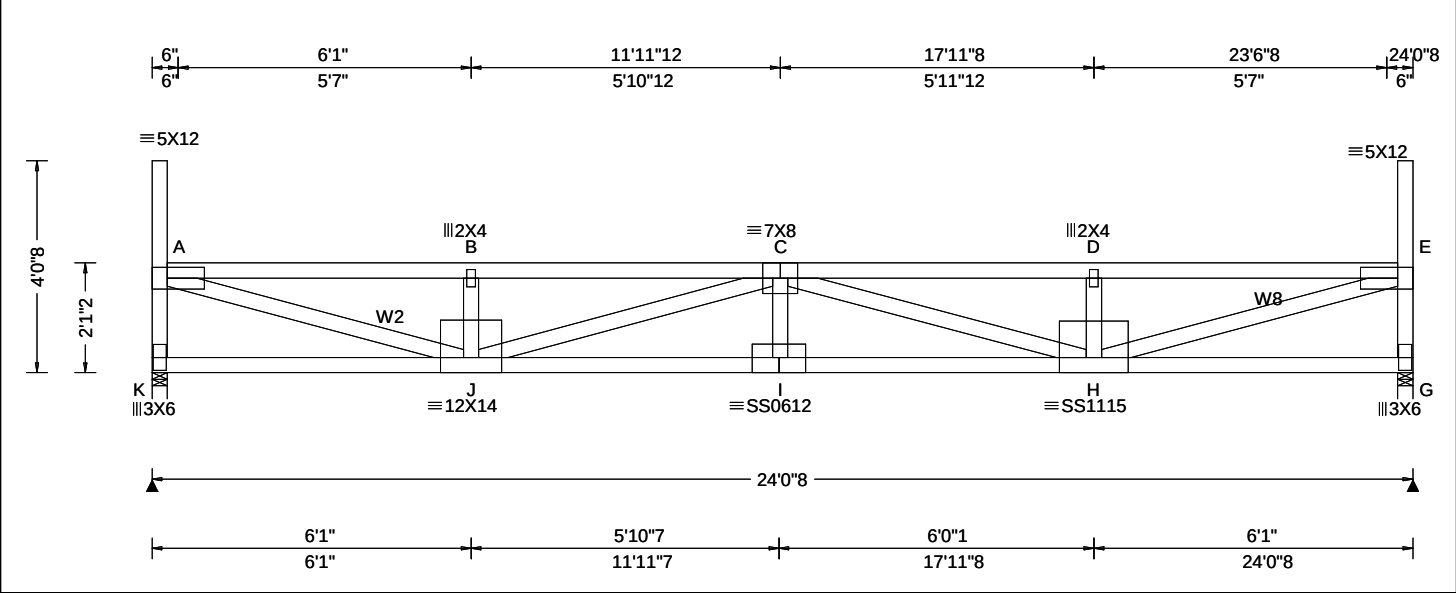
Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	
Deflection Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.	
Additional Notes Truss must be installed as shown with top chord up.	

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 11

SEQN: 36997 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T33	Cust: R 9316 JRef:1XIO93160003 T191 DrwNo: 139.22.1013.09360 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.76 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.380 I 759 360 VERT(CL): 0.706 I 408 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.110 A - - Creep Factor: 2.0 Max TC CSI: 0.932 Max BC CSI: 0.715 Max Web CSI: 0.844 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /733 /86 /139 G 1542 /- /- /733 /86 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 255 -4139 C - D 254 -4138 B - C 254 -4133 D - E 255 -4143

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.95 33.87 4.20
23.75 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



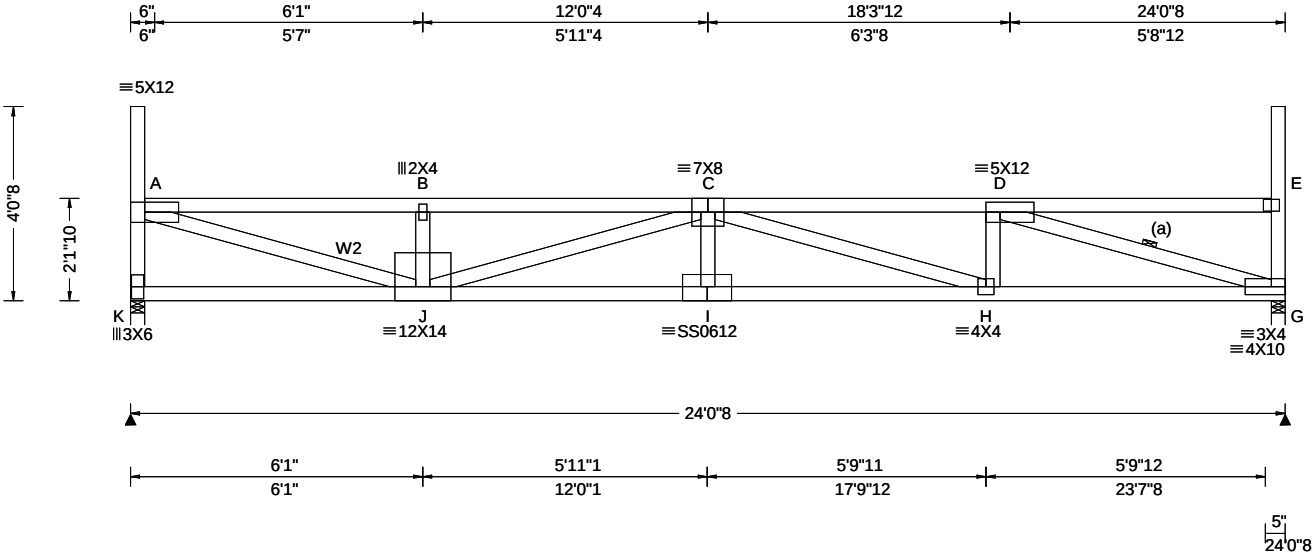
05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 11

SEQN: 36998 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T34	Cust: R 9316 JRef:1XIO93160003 T200 DrwNo: 139.22.1013.14307 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity						
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	K	1542	/-	/-	/733	/86	/138
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	G	1542	/-	/-	/733	/86	/-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(LL): 0.059 G - -	Wind reactions based on MWFRS						
NCBCLL: 0.00	Mean Height: 21.80 ft	Building Code:	HORZ(TL): 0.110 G - -	K Brg Wid = 3.5 Min Req = 2.0 (Truss)						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Creep Factor: 2.0	G Brg Wid = 3.5 Min Req = 2.0 (Truss)						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max TC CSI: 0.916	Bearings K & G are a rigid surface.						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max BC CSI: 0.703	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Max Web CSI: 0.849	Maximum Top Chord Forces Per Ply (lbs)						
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp.		Chords Tens. Comp.				
	GCpi: 0.18			A - B	250	- 4051	C - D	247	- 4073	
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	B - C	249	- 4046				

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.91 32.49 4.38
23.75 0.00 23.46 1.91 32.49 4.38
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



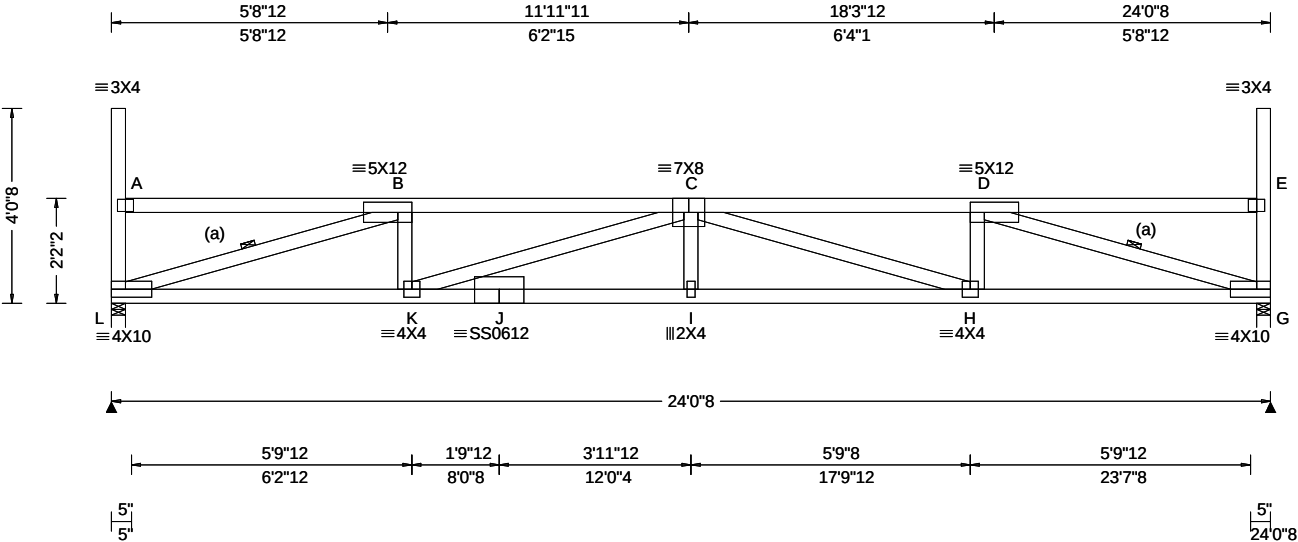
05/19/2022

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 11

SEQN: 36999 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T35	Cust: R 9316 JRef:1XIO93160003 T205 DrwNo: 139.22.1013.20497 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity							
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(LL): 0.346 I 833 360	L	1541	/-	/-	/732	/86	/136
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	VERT(CL): 0.643 I 448 240	G	1541	/-	/-	/732	/86	/-
	Des Ld: 65.00	EXP: B Kzt: NA		HORZ(LL): 0.073 G - -	Wind reactions based on MWFRS						
	NCBCLL: 0.00	Mean Height: 21.84 ft	Building Code:	HORZ(TL): 0.136 G - -	L	Brg Wid = 3.5	Min Req = 2.0	(Truss)			
	Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Creep Factor: 2.0	G	Brg Wid = 3.5	Min Req = 2.0	(Truss)			
	Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max TC CSI: 0.679	Bearings L & G are a rigid surface.						
	Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max BC CSI: 0.683	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Max Web CSI: 0.833	Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: Any	Plate Type(s):		Chords	Tens.Comp.	Chords	Tens. Comp.				
	GCpi: 0.18			B - C	240	-3982	C - D	240	-3981		
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17								

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) <table><tr><th>Chords</th><th colspan="2">Tens.Comp.</th><th>Chords</th><th colspan="2">Tens. Comp.</th></tr><tr><td>L - K</td><td>3864</td><td>-352</td><td>I - H</td><td>5103</td><td>-310</td></tr><tr><td>K - J</td><td>5103</td><td>-310</td><td>H - G</td><td>3864</td><td>-209</td></tr><tr><td>J - I</td><td>5103</td><td>-310</td><td></td><td></td><td></td></tr></table>						Chords	Tens.Comp.		Chords	Tens. Comp.		L - K	3864	-352	I - H	5103	-310	K - J	5103	-310	H - G	3864	-209	J - I	5103	-310															
Chords	Tens.Comp.		Chords	Tens. Comp.																																						
L - K	3864	-352	I - H	5103	-310																																					
K - J	5103	-310	H - G	3864	-209																																					
J - I	5103	-310																																								
Bracing (a) Continuous lateral restraint equally spaced on member.																																										
Loading Drifting snow load has been considered for only in plane loading as follows: <table><tr><td>Location</td><td>Lu1</td><td>Lu2</td><td>Height</td><td>Pd</td><td>W</td></tr><tr><td></td><td>2.00</td><td>2.00</td><td>2.00</td><td>21.12</td><td>450</td></tr></table>	Location	Lu1	Lu2	Height	Pd	W		2.00	2.00	2.00	21.12	450	Maximum Web Forces Per Ply (lbs) <table><tr><th>Webs</th><th colspan="2">Tens.Comp.</th><th>Webs</th><th colspan="2">Tens. Comp.</th></tr><tr><td>L - B</td><td>241</td><td>-4000</td><td>C - H</td><td>134</td><td>-1180</td></tr><tr><td>B - K</td><td>768</td><td>-1</td><td>H - D</td><td>767</td><td>-1</td></tr><tr><td>K - C</td><td>136</td><td>-1179</td><td>D - G</td><td>240</td><td>-3999</td></tr></table>						Webs	Tens.Comp.		Webs	Tens. Comp.		L - B	241	-4000	C - H	134	-1180	B - K	768	-1	H - D	767	-1	K - C	136	-1179	D - G	240	-3999
Location	Lu1	Lu2	Height	Pd	W																																					
	2.00	2.00	2.00	21.12	450																																					
Webs	Tens.Comp.		Webs	Tens. Comp.																																						
L - B	241	-4000	C - H	134	-1180																																					
B - K	768	-1	H - D	767	-1																																					
K - C	136	-1179	D - G	240	-3999																																					

Bracing (a) Continuous lateral restraint equally spaced on member.							R - J	5103	-310	H - G	5004	-209
							J - I	5103	-310			
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W							Maximum Web Forces Per Ply (lbs)					
							Webs	Tens.Comp.		Webs	Tens. Comp.	
							L - B	241	-4000	C - H	134	-1180
							B - K	768	-1	H - D	767	-1
							K - C	136	-1179	D - G	240	-3999

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.86 31.10 4.58
23.75 0.00 23.46 1.86 31.10 4.58
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

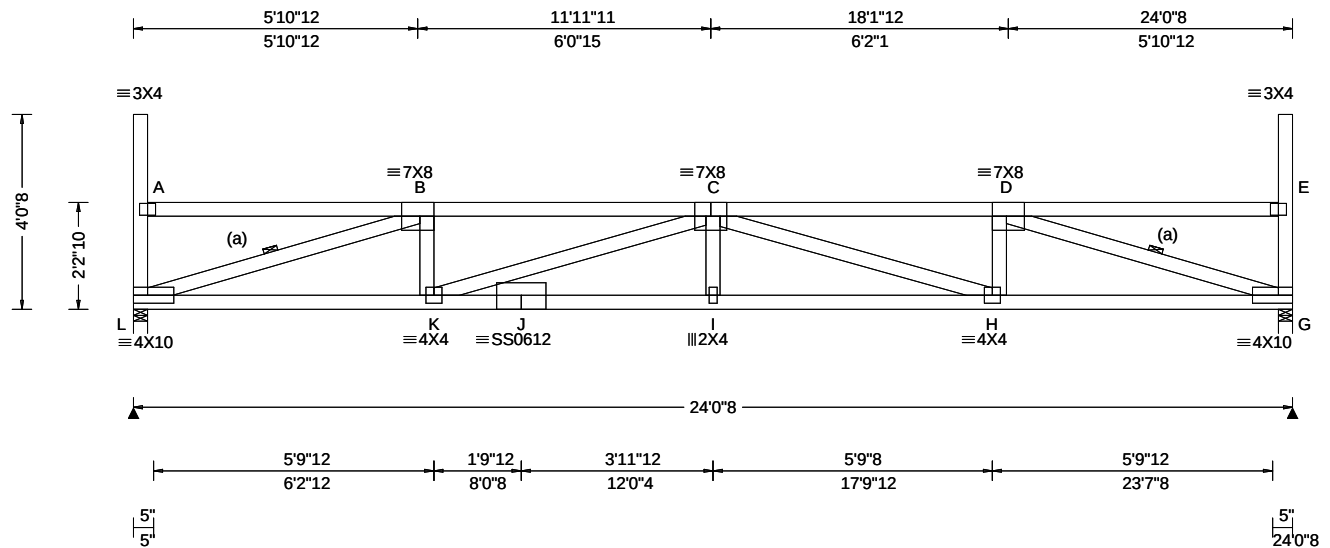
Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022
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SEQN: 37000	FLAT	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1XIO93160003 T213
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.1013.26690
			Truss Label: T36	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.332 I 868 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.617 I 467 240	L 1541 /- /- /732 /86 /135
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.072 G - -	G 1541 /- /- /732 /86 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.134 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.89 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.656	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.673	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.820	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE. 18SS	VIEW Ver: 21.02.00.1005.17	B - C 236 - 3898 C - D 236 - 3897

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

(a) Continuous lateral restraint equally spaced on member.

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



05/19/2022

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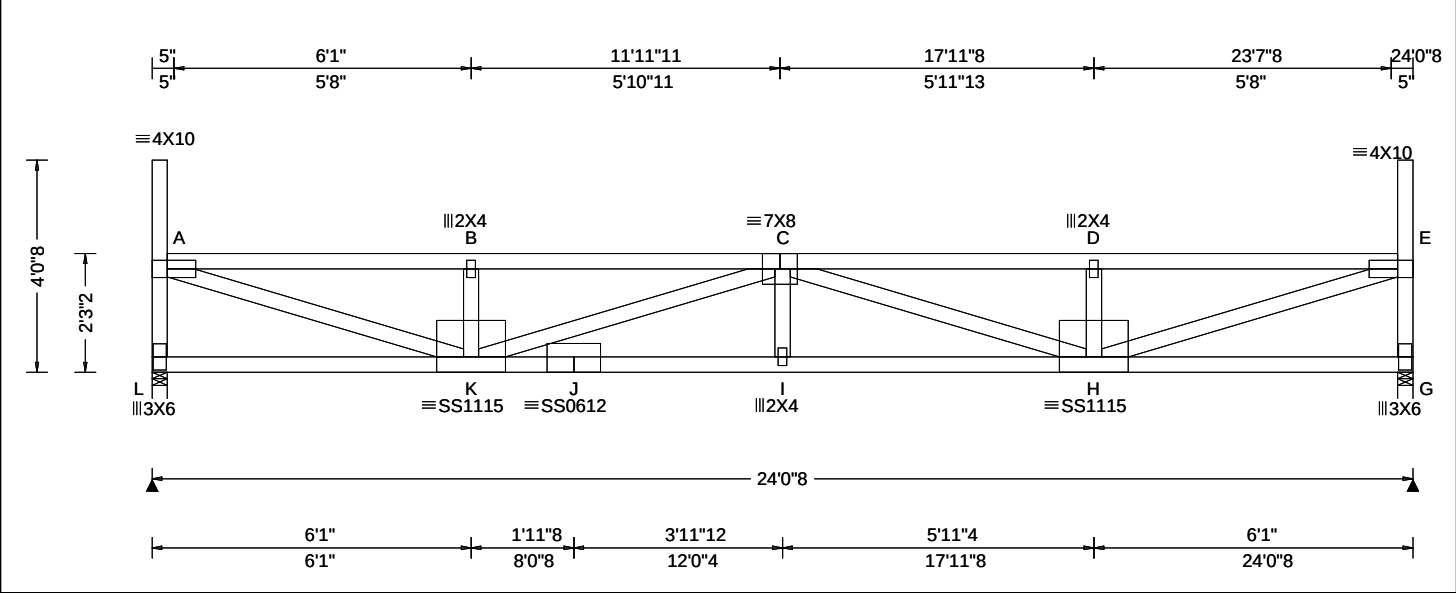
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

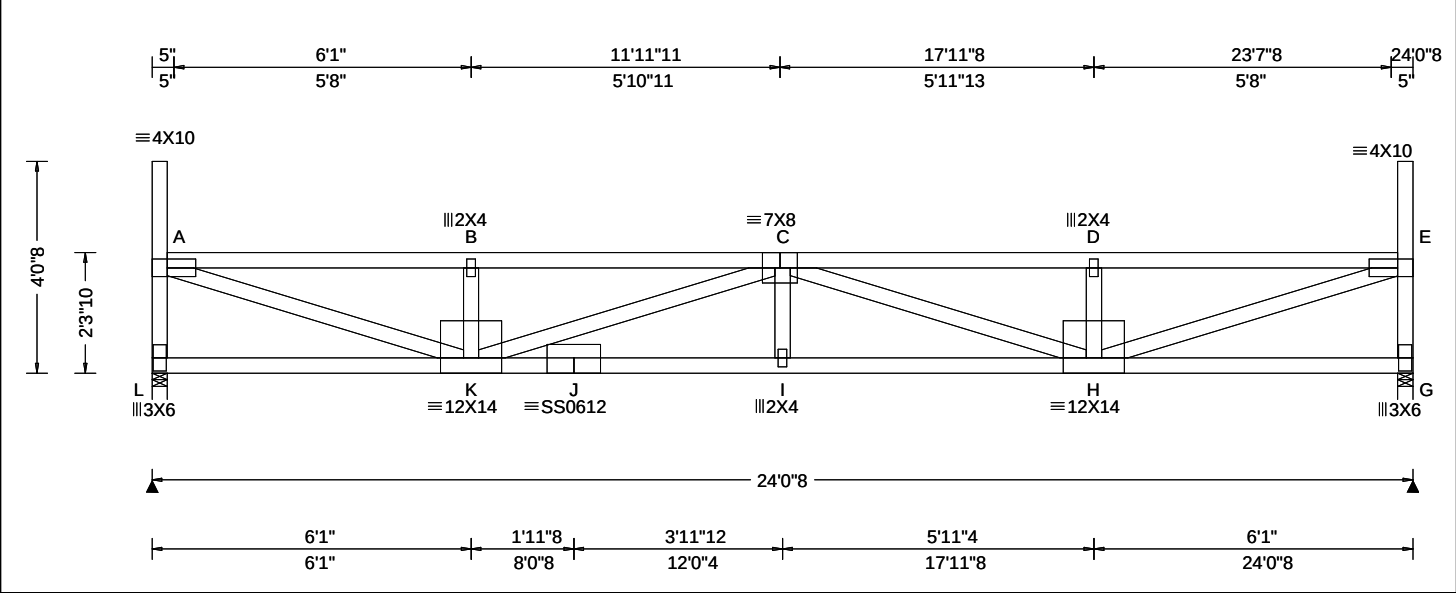
Building 11

SEQN: 37001 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T37	Cust: R 9316 JRef:1XIO93160003 T204 DrwNo: 139.22.1013.35327 / NDW 05/19/2022
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Building 11

SEQN: 37002 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T38	Cust: R 9316 JRef:1XIO93160003 T209 DrwNo: 139.22.1013.42607 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.97 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.323 I 893 360 VERT(CL): 0.600 I 480 240 HORZ(LL): 0.053 A - - HORZ(TL): 0.099 A - - Creep Factor: 2.0 Max TC CSI: 0.854 Max BC CSI: 0.652 Max Web CSI: 0.928 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1541 /- /- /732 /86 /133 G 1541 /- /- /732 /86 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 209 -3715 C - D 208 -3709 B - C 208 -3710 D - E 209 -3714

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4792 -293 I - H 4792 -293 J - I 4792 -293
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.74 26.95 5.28 23.75 0.00 23.46 1.74 26.95 5.28 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 100 -1381 C - H 112 -1143 A - K 3781 -230 H - E 3780 -231 K - C 116 -1142 E - G 100 -1381

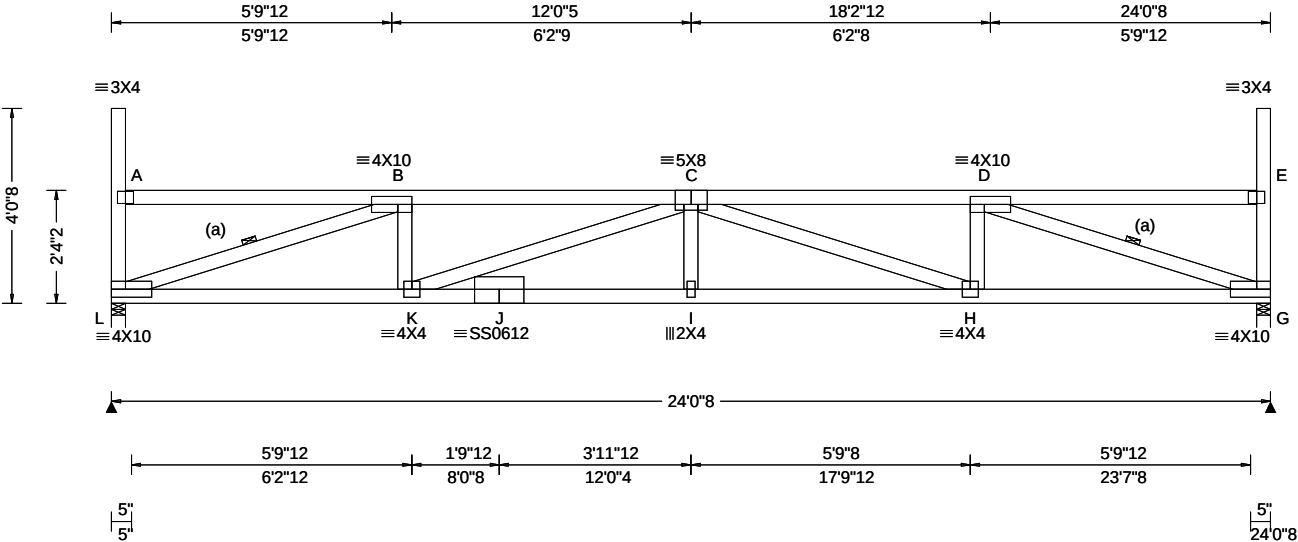
Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	Deflection Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.	
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Building 11

SEQN: 37003 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T39	Cust: R 9316 JRef:1XIO93160003 T199 DrwNo: 139.22.1013.50930 / NDW 05/19/2022
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Loading Criteria (psf) TCCL: 20.00 TCDL: 15.00 BCCL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.296 I 976 360 VERT(CL): 0.549 I 525 240 HORZ(LL): 0.068 G - - HORZ(TL): 0.126 G - - Creep Factor: 2.0 Max TC CSI: 0.598 Max BC CSI: 0.650 Max Web CSI: 0.783 VIEW Ver: 21.02.00.1005.17	Maximum Reactions (lbs) Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /87 /132 G 1542 /- /- /732 /87 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 202 -3671 C - D 202 -3670
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Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3563 -310 I - H 4703 -294 K - J 4703 -294 H - G 3562 -201 J - I 4703 -294
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.70 25.57 5.57 23.75 0.00 23.46 1.70 25.57 5.57 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 226 -3721 C - H 115 -1096 B - K 769 0 H - D 769 0 K - C 117 -1095 D - G 226 -3719
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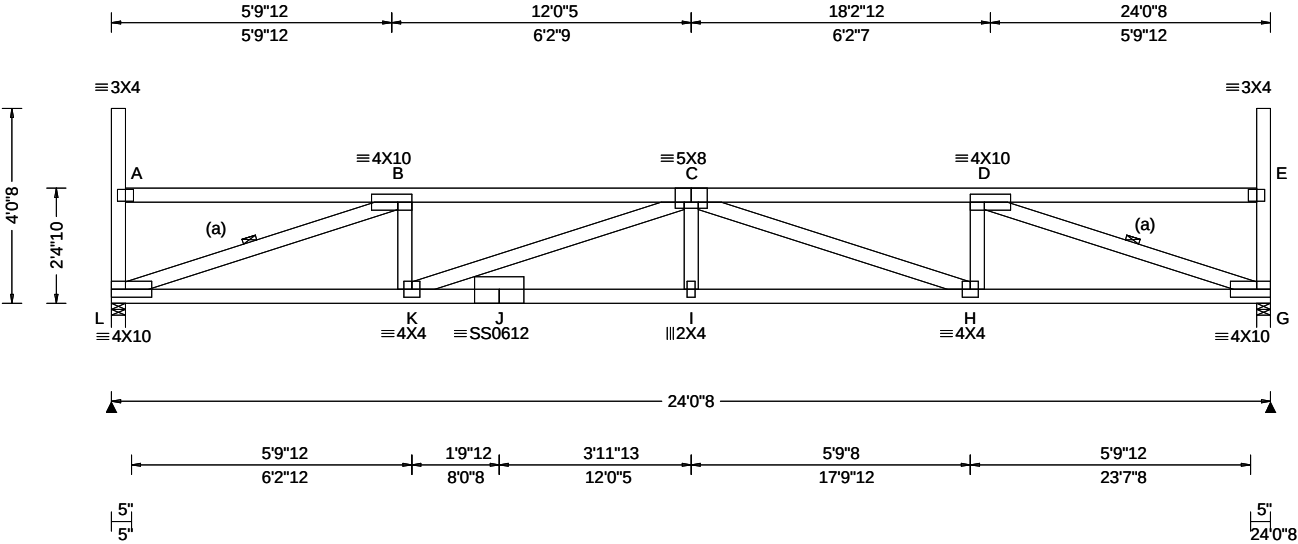
Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	Deflection Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.	
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Building 11

SEQN: 37004 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T40	Cust: R 9316 JRef:1XIO93160003 T211 DrwNo: 139.22.1013.57413 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.285 I 999 360 VERT(CL): 0.529 I 545 240 HORZ(LL): 0.066 G - - HORZ(TL): 0.123 G - - Creep Factor: 2.0 Max TC CSI: 0.583 Max BC CSI: 0.643 Max Web CSI: 0.772 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1542 /- /- /732 /87 /131 G 1542 /- /- /732 /87 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -3600 C - D 199 -3598

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



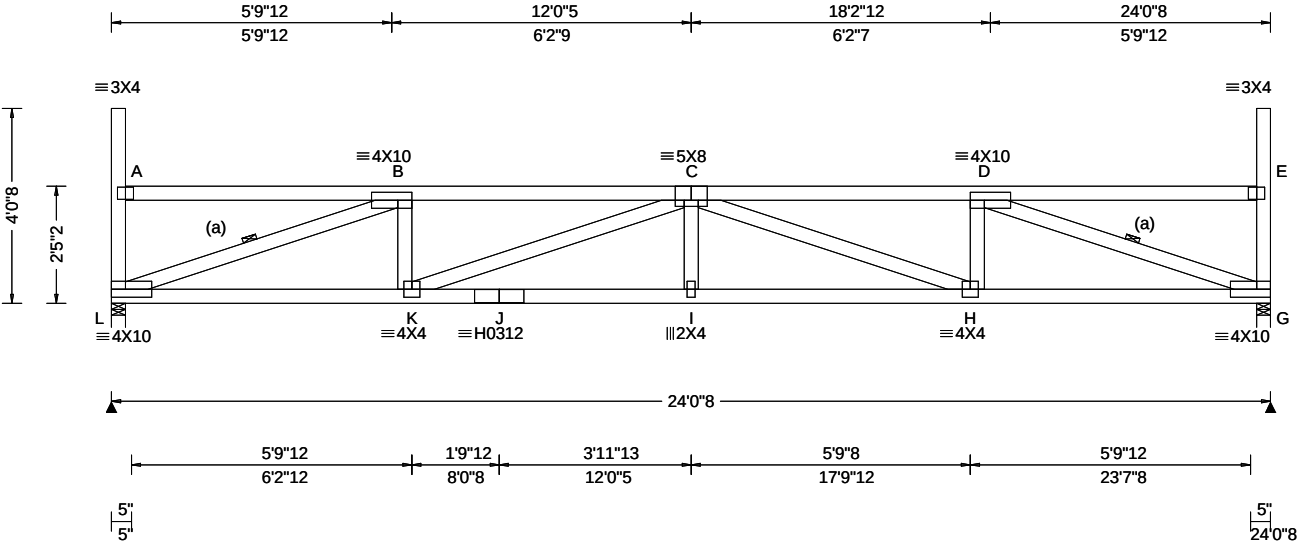
05/19/2022

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Building 11

SEQN: 37005 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T41	Cust: R 9316 JRef:1XIO93160003 T201 DrwNo: 139.22.1014.02977 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.274 I 999 360 VERT(CL): 0.510 I 565 240 HORZ(LL): 0.065 G - - HORZ(TL): 0.121 G - - Creep Factor: 2.0 Max TC CSI: 0.568 Max BC CSI: 0.637 Max Web CSI: 0.761 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /87 /129 G 1542 /- /- /732 /87 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 195 -3531 C - D 196 -3530

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



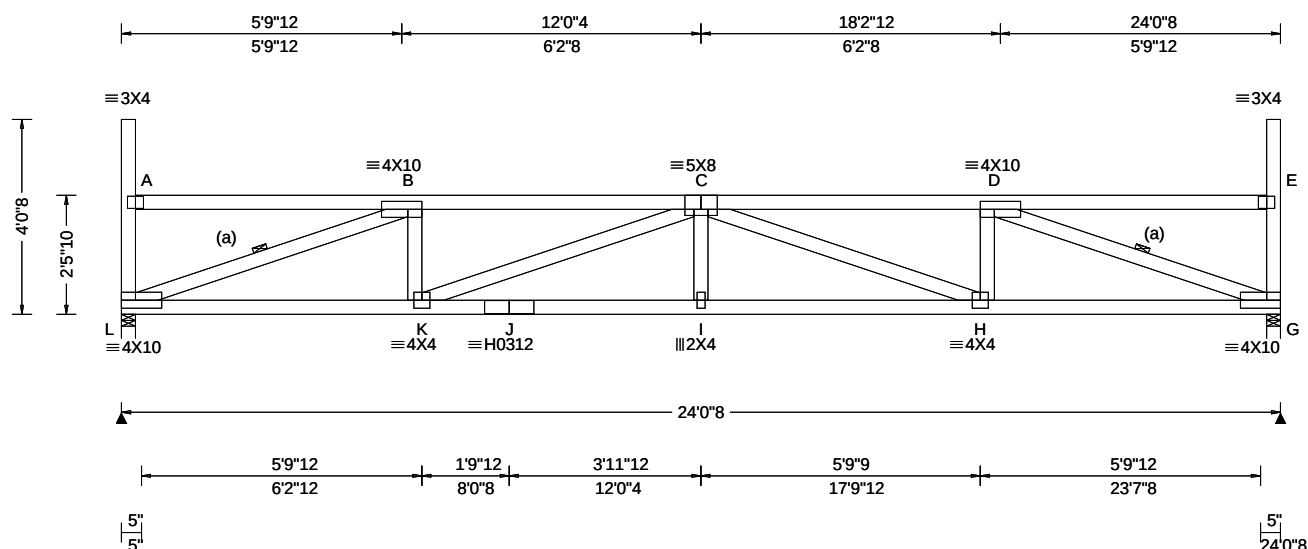
05/19/2022

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Building 11

SEQN: 37006	FLAT	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1Xf093160003 T195
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.1014.09803
			Truss Label: T42	/ NDW 05/19/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in	loc L/defl L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf: 15.0	Ce: 1.0	VERT(LL):	0.265 I 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL):	0.492 I 586 240	L	1542	/-	/-	/732	/87	/128
BCDL:	15.00	Risk Category:	II	Snow Duration:	1.15	HORZ(LL):	0.064 G - -	G	1542	/-	/-	/732	/87	/-
Des Ld:	65.00	EXP:	B Kzt: NA			HORZ(TL):	0.119 G - -	Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height:	22.14 ft	Building Code:		Creep Factor:	2.0	L	Brg Wid = 3.5 Min Req = 2.0 (Truss)					
Soffit:	2.00	TCDL:	5.0 psf	IBC 2018		Max TC CSI:	0.553	G	Brg Wid = 3.5 Min Req = 2.0 (Truss)					
Load Duration:	1.15	BCDL:	3.0 psf	TPI Std:	2014	Max BC CSI:	0.631	Bearings L & G are a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist:	h/2 to h	Rep Fac:	Yes	Max Web CSI:	0.751	Members not listed have forces less than 375#						
		C&C Dist a:	3.00 ft	FT/RT:	20(0)/10(0)			Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall:	Any	Plate Type(s):				Chords	Tens.Comp.	Chords	Tens. Comp.			
		GCpi:	0.18	WAVE	HS			B - C	192	- 3465	C - D	193	- 3464	
		Wind Duration:	1.60			VIEW Ver:	21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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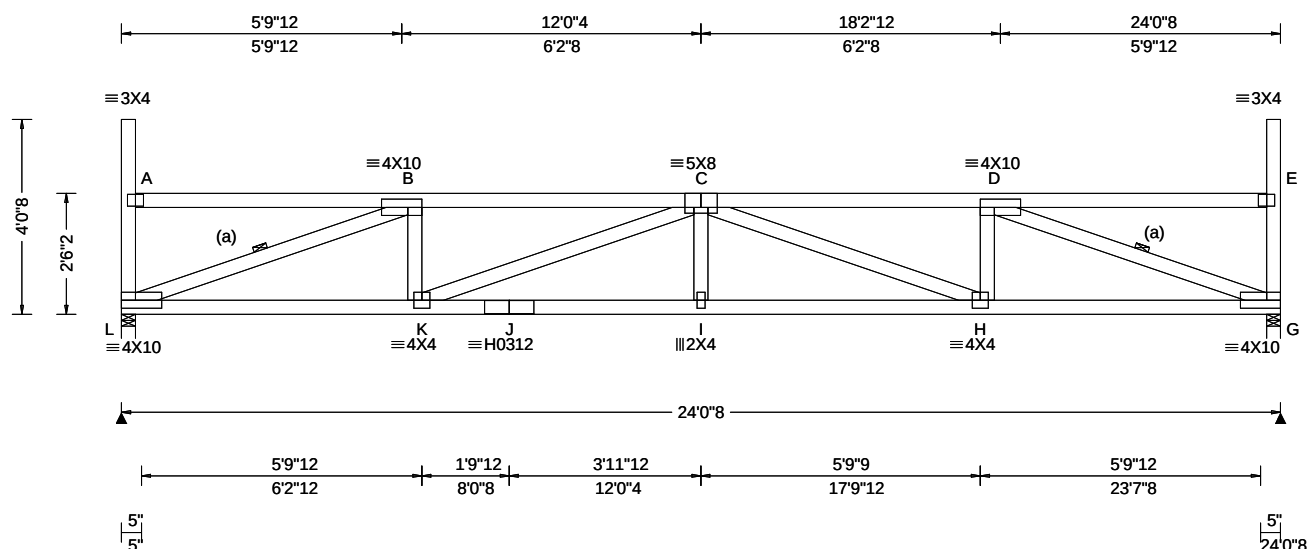
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37007	FLAT	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1XIO93160003 T198
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.1014.15690
			Truss Label: T43	/ NDW 05/19/2022



Loading Criteria	(psf)	Wind Criteria	Snow Criteria	(Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL:	15.00	Speed: 109 mph	Pf: 15.0 Ce: 1.0	VERT(LL): 0.255 I 999 360	Loc R+ /R-	/Rh / Rw /U /RL
BCLL:	15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.475 I 607 240	L 1542 /- /- /732 /87 /127	G 1542 /- /- /732 /87 /-
BCDL:	15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.063 G - -	Wind reactions based on MWFRS	
Des Ld:	65.00	EXP: B Kzt: NA		HORZ(TL): 0.116 G - -	L Brg Wid = 3.5 Min Req = 2.0 (Truss)	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
NCBCLL:	0.00	Mean Height: 22.18 ft		Creep Factor: 2.0	Bearings L & G are a rigid surface.	
Soffit:	2.00	TCDL: 5.0 psf		Max TC CSI: 0.540	Members not listed have forces less than 375#	
Load Duration:	1.15	BCDL: 3.0 psf		Max BC CSI: 0.625	Maximum Top Chord Forces Per Ply (lbs)	
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.741	Chords Tens.Comp.	Chords Tens. Comp.
C&C Dist a:	3.00 ft	Loc. from endwall: Any			B - C 211 - 340I	C - D 211 - 340O
		GCpi: 0.18				
		Wind Duration: 1.60				
			Building Code:	VIEW Ver: 21.02.00.1005.17		
			IBC 2018			
			TPI Std: 2014			
			Rep Fac: Yes			
			FT/RT:20(0)/10(0)			
			Plate Type(s):			
			WAVE_HS			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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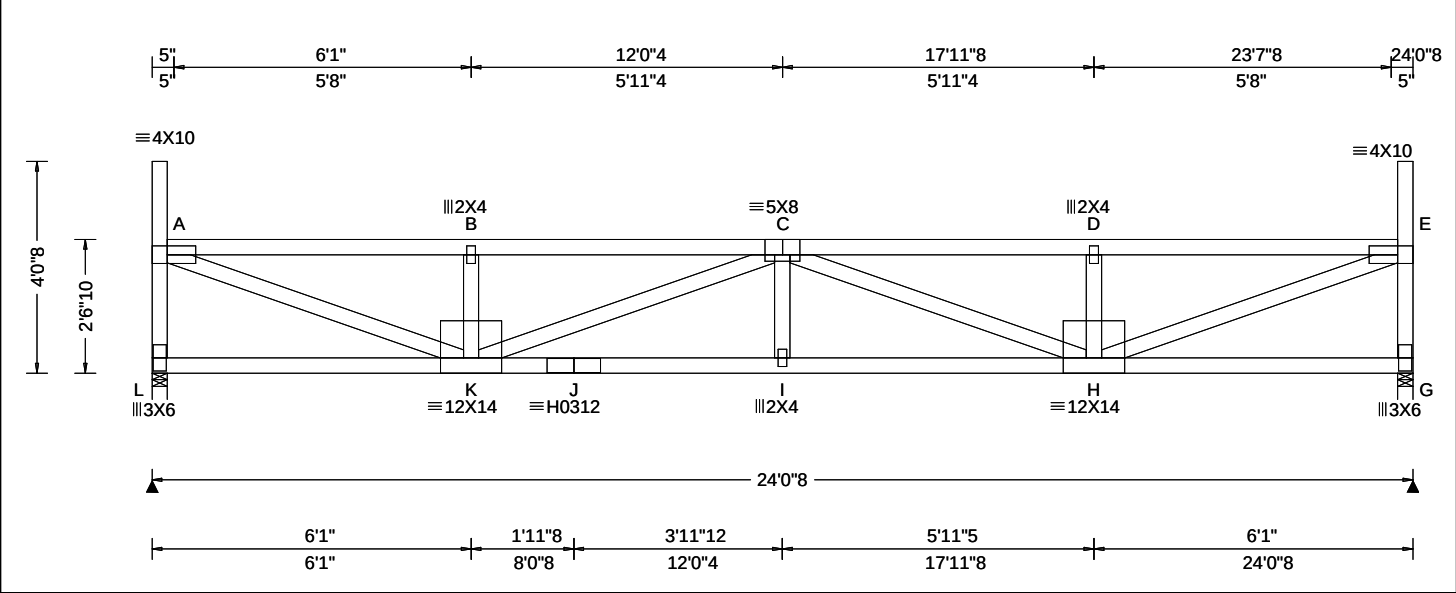
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37008 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T44	Cust: R 9316 JRef:1XIO93160003 T202 DrwNo: 139.22.1014.22700 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	L	1542	/-	/-	/732	/87	/126
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.260 I 999 360	G	1542	/-	/-	/732	/87	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.482 I 597 240	Wind reactions based on MWFRS						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.048 A - -	L Brg Wid = 3.5 Min Req = 2.0 (Truss)						
Des Ld: 65.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.089 A - -	G Brg Wid = 3.5 Min Req = 2.0 (Truss)						
	Creep Factor: 2.0		Bearings L & G are a rigid surface.							
	NCBCLL: 0.00		Max TC CSI: 0.693	Members not listed have forces less than 375#						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max BC CSI: 0.608	Maximum Top Chord Forces Per Ply (lbs)						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max Web CSI: 0.838	Chords	Tens.Comp.	Chords	Tens. Comp.			
	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes		A - B	211	-3318	C - D	211	-3312	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		B - C	211	-3313	D - E	211	-3317	
Spacing: 24.0 "	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18	WAVE, HS	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.49 18.65 4.50
23.75 0.00 23.46 1.49 18.65 4.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

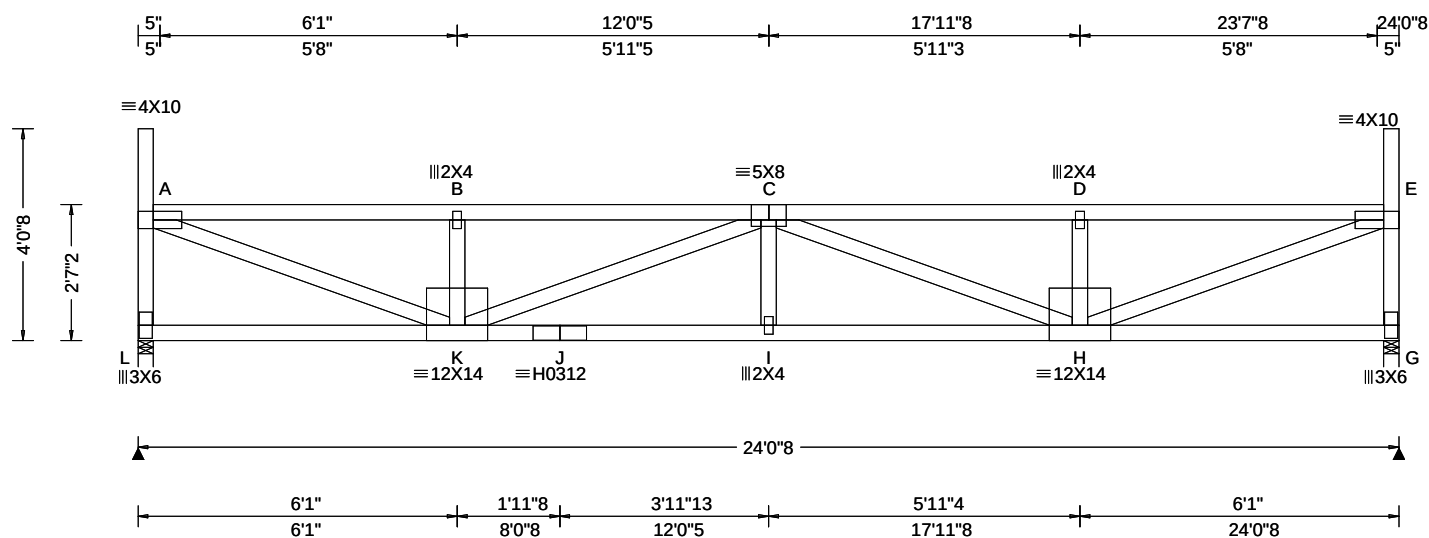


05/19/2022

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Building 11

SEQN: 37009	FLAT	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1Xf093160003 T196
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.1014.27663
			Truss Label: T45	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.251 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.466 I 618 240	L 1542 /- /- /731 /87 /125
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.047 A - -	G 1542 /- /- /731 /87 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.088 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.26 ft		Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	Building Code:	Max TC CSI: 0.676	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	IBC 2018	Max BC CSI: 0.602	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.825	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	Rep Fac: Yes		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	FT/RT:20(0)/10(0)		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	Plate Type(s):		A - B 208 - 3260 C - D 207 - 3253
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2:

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load. W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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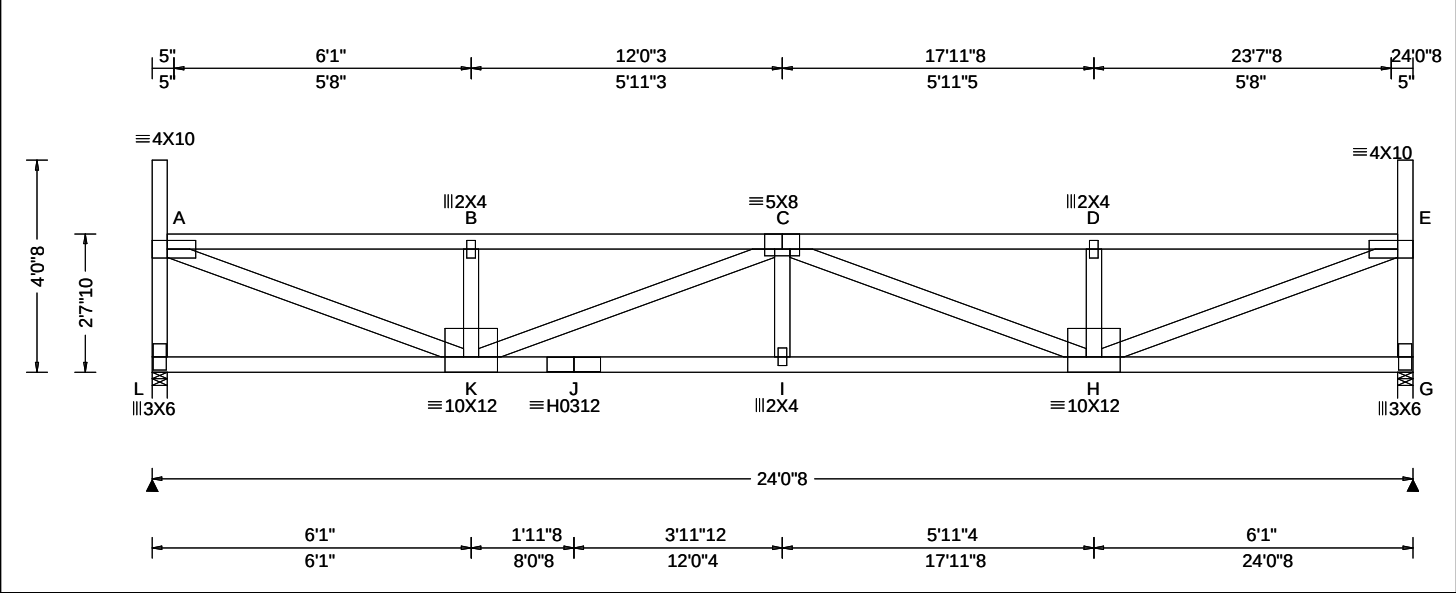
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37010 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T46	Cust: R 9316 JRef:1XIO93160003 T207 DrwNo: 139.22.1014.37373 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.243 I 999 360 VERT(CL): 0.451 I 639 240 HORZ(LL): 0.046 A - - HORZ(TL): 0.086 A - - Creep Factor: 2.0 Max TC CSI: 0.663 Max BC CSI: 0.597 Max Web CSI: 0.813 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /88 /123 G 1542 /- /- /731 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 205 -3203 C - D 204 -3197 B - C 204 -3198 D - E 205 -3202

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4125 -265 I - H 4125 -265 J - I 4125 -265
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.41 15.89 3.83 23.75 0.00 23.46 1.41 15.89 3.83 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 102 -1385 C - H 103 -997 A - K 3311 -203 H - E 3311 -203 B - K 80 -380 D - H 80 -380 K - C 105 -997 E - G 102 -1385
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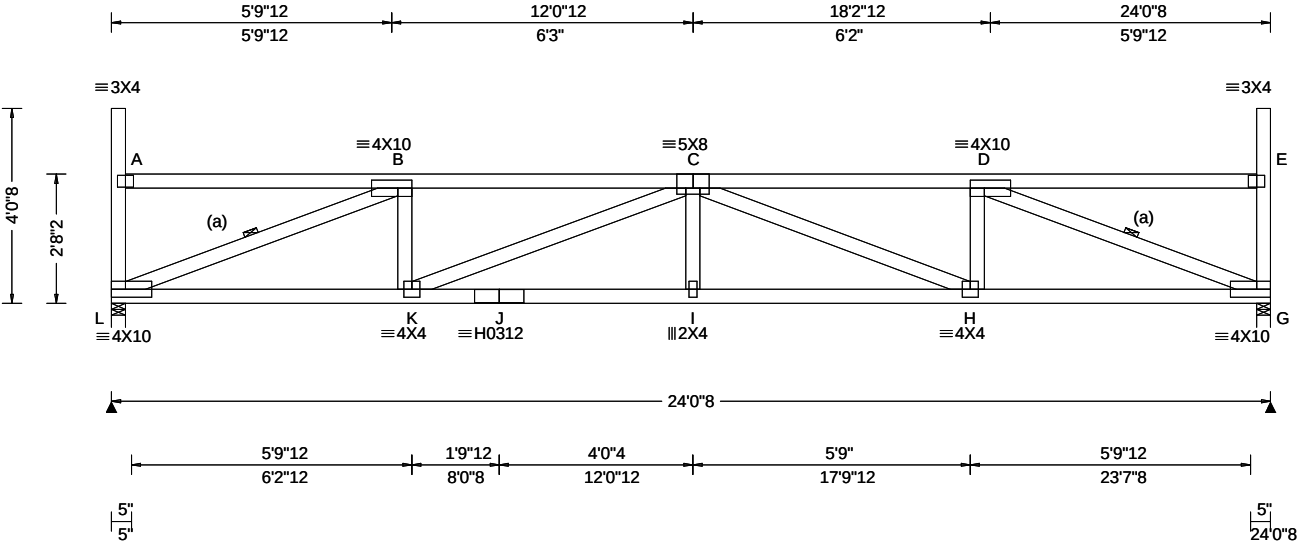
Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	Deflection Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.	
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Building 11

SEQN: 37011 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T47	Cust: R 9316 JRef:1XIO93160003 T203 DrwNo: 139.22.1014.44723 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.223 I 999 360 VERT(CL): 0.415 I 694 240 HORZ(LL): 0.058 G - - HORZ(TL): 0.108 G - - Creep Factor: 2.0 Max TC CSI: 0.516 Max BC CSI: 0.604 Max Web CSI: 0.706 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1542 /- /- /731 /88 /122 G 1542 /- /- /731 /88 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -3169 C - D 199 -3166

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



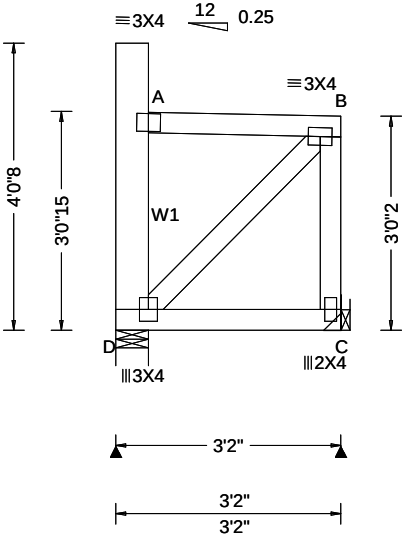
05/19/2022

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Building 11

SEQN: 37012 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48	Cust: R 9316 JRef:1XIO93160003 T197 DrwNo: 139.22.1014.48777 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	176	/-	/-	/111	/53	/78
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.001 B 999 240	C	204	/-	/-	/150	/47	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 22.71 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = - Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.139	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.123	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.033							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

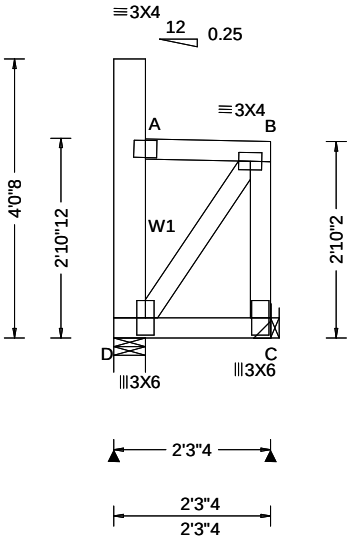
Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 37014 FROM:	MONO Qty: 16	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T49	Cust: R 9316 JRef:1XIO93160003 T217 DrwNo: 139.22.1014.57150 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	119	/-	/-	/99	/78	/80
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	144	/-	/-	/147	/61	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.001 A - -	D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
	Creep Factor: 2.0		C Brg Wid = - Min Req = -							
NCBCLL: 0.00	Mean Height: 22.53 ft	IBC 2018	Max TC CSI: 0.065	Bearing D is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.063	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	Rep Fac: Yes	Max Web CSI: 0.042							
	MWFRS Parallel Dist: h/2 to h	FT/RT:20(0)/10(0)								
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Plate Type(s):								
	Loc. from endwall: Any	WAVE	VIEW Ver: 21.02.00.1005.17							
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



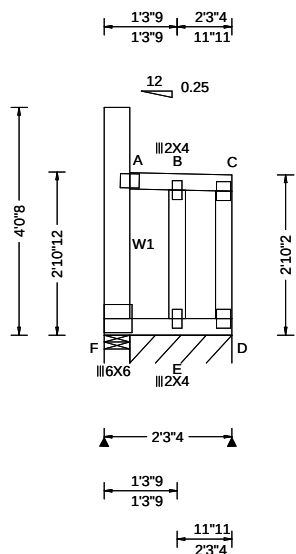
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Building 11

SEQN: 37015	MONO	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1Xf093160003 T138
FROM:		Qty: 8	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.1015.01500
			Truss Label: T50	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240	F 36 /-8 /- /118 /150 /92
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.124 B - -	D* 139 /- /- /148 /70 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.141 B - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.53 ft	Building Code:	Creep Factor: 2.0	F Brg Wid = 5.5 Min Req = 1.5 (Truss)
Softit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.111	D Brg Wid = 21.7 Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.255	Bearings F & F are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.115	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.63	1.81

Where: Lu1 = leeward distance, Lu2 = windward distance

P_d = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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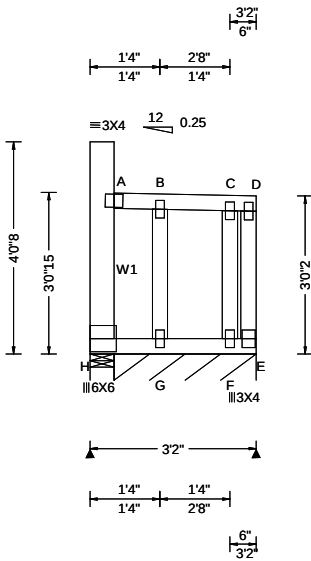
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinet.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

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North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37016 FROM:	GABL Qty: 4	Ply: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T51	Cust: R 9316 JRef:1XIO93160003 T169 DrwNo: 139.22.1015.15527 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	H 47	/-	/-		/123	/131	/90
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.010 A 999 240	E* 123	/-	/-		/106	/44	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.122 C - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.143 B - -	H Brg Wid = 5.5 Min Req = 1.5 (Truss)						
	Creep Factor: 2.0		E Brg Wid = 32.5 Min Req = -							
NCBCLL: 0.00	Mean Height: 22.71 ft	IBC 2018	Max TC CSI: 0.105	Bearings H & H are a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.293	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	Rep Fac: Yes	Max Web CSI: 0.131							
	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)								
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Plate Type(s):								
	Loc. from endwall: Any	WAVE	VIEW Ver: 21.02.00.1005.17							
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

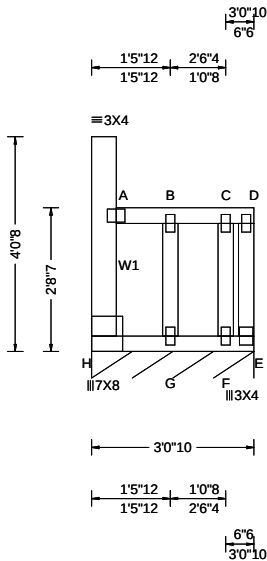


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Building 11

SEQN: 37017 FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T52	Cust: R 9316 JRef:1XIO93160003 T132 DrwNo: 139.22.1015.19437 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 360 VERT(CL): 0.009 A 999 240 HORZ(LL): 0.115 A - - HORZ(TL): 0.134 A - - Creep Factor: 2.0 Max TC CSI: 0.115 Max BC CSI: 0.323 Max Web CSI: 0.142 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				E*	119	/-	/-	/56	/5	/30
				Wind reactions based on MWFRS E Brg Wid = 36.6 Min Req = - Bearing H is a rigid surface. Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Loading
Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.34 13.63 2.59
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

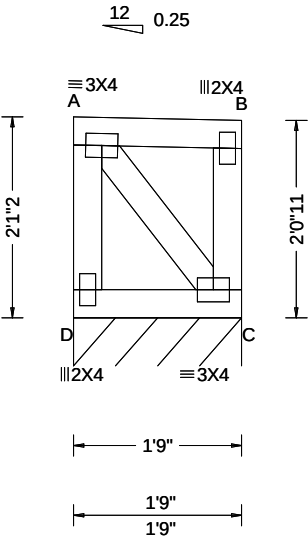


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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37018 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE01	Cust: R 9316 JRef:1XIO93160003 T188 DrwNo: 139.22.0906.42780 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.039 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 21.0 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



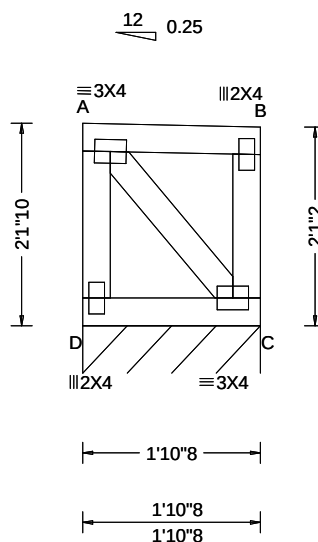
05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 11

SEQN: 37019 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: TGE02	Cust: R 9316 JRef: 1Xf093160003 T189 DrwNo: 139.22.0906.42670 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * =PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240	C* 130 /- /- /61 /5 /18
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -	Wind reactions based on MWFRS
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -	C Brg Wid = 22.5 Min Req = -
NCBCLL: 0.00	Mean Height: 21.12 ft	Building Code:	Creep Factor: 2.0	Bearing D is a rigid surface.
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Members not listed have forces less than 375#
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046	
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.022	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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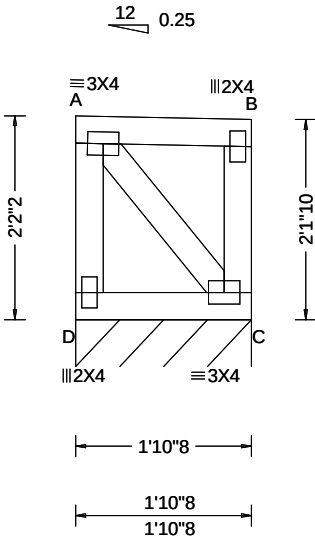
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37020 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE03	Cust: R 9316 JRef:1XIO93160003 T190 DrwNo: 139.22.0906.42914 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.16 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.023 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



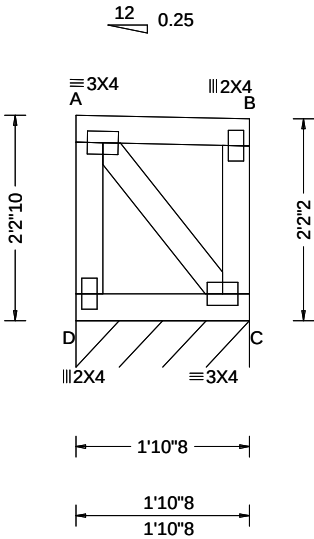
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Building 11

SEQN: 37021 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE04	Cust: R 9316 JRef:1XIO93160003 T192 DrwNo: 139.22.0906.42840 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

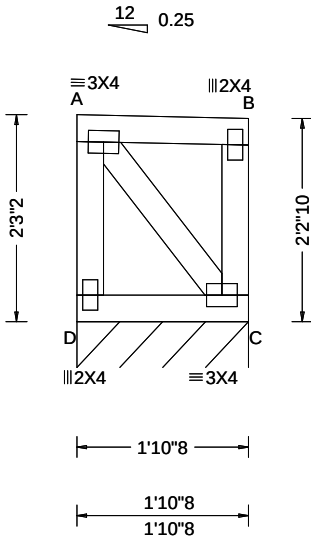


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Building 11

SEQN: 37022 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE05	Cust: R 9316 JRef:1XIO93160003 T215 DrwNo: 139.22.0906.42054 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

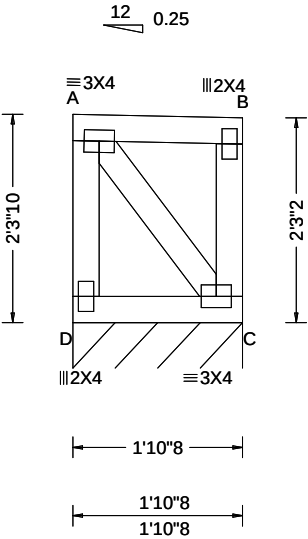
Additional Notes
Truss must be installed as shown with top chord up.



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SEQN: 37023 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE06	Cust: R 9316 JRef:1XIO93160003 T219 DrwNo: 139.22.0906.41998 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.28 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.026 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/20
				Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

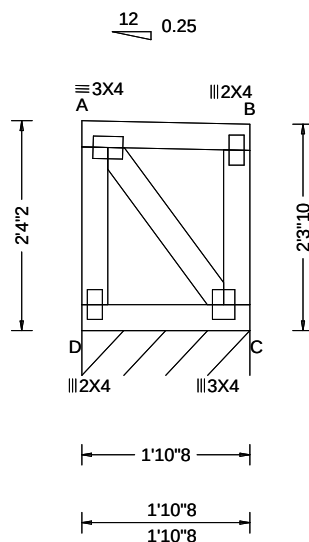


05/19/2022

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Building 11

SEQN: 37024 /	MONO	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1Xf093160003 T220
FROM:		Qty: 8	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.0906.41921
			Truss Label: TGE07	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * =PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240	C* 130 /- /- /61 /5 /21
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -	Wind reactions based on MWFRS
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -	C Brg Wid = 22.5 Min Req = -
NCBCLL: 0.00	Mean Height: 21.32 ft	Building Code:	Creep Factor: 2.0	Bearing D is a rigid surface.
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Members not listed have forces less than 375#
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046	
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.027	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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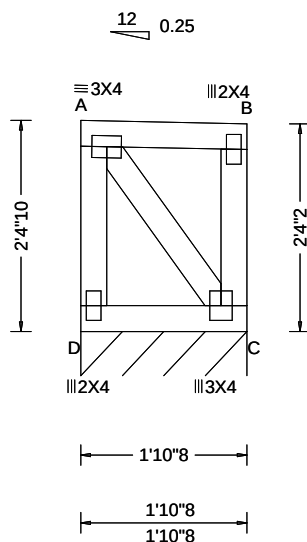
For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37025 /	MONO	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1Xf093160003 T221
FROM:		Qty: 8	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.0906.42885
			Truss Label: TGE08	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=-PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240	C* 130 /- /- /61 /5 /21
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -	Wind reactions based on MWFRS
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.000 B - -	C Brg Wid = 22.5 Min Req = -
NCBCLL: 0.00	Mean Height: 21.37 ft	Building Code:	Creep Factor: 2.0	Bearing D is a rigid surface.
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Members not listed have forces less than 375#
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046	
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.028	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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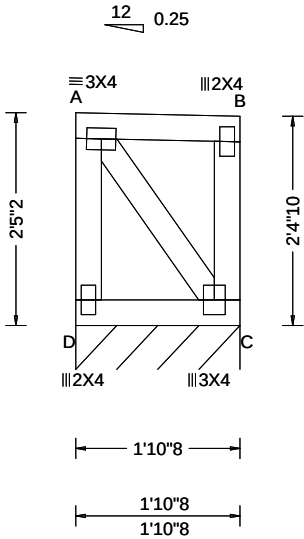
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37026 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE09	Cust: R 9316 JRef:1XIO93160003 T222 DrwNo: 139.22.0906.42717 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.41 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.029 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

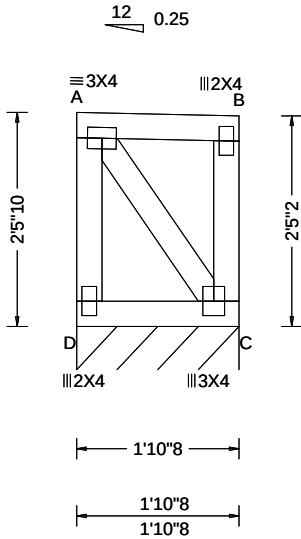


05/19/2022

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SEQN: 37027 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE10	Cust: R 9316 JRef:1XIO93160003 T223 DrwNo: 139.22.0906.42662 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.45 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.031 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

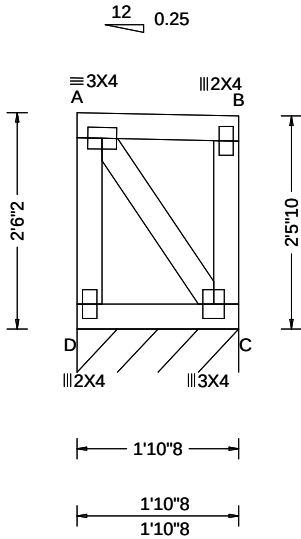
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 37028 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE11	Cust: R 9316 JRef:1XIO93160003 T224 DrwNo: 139.22.0906.42423 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.49 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.032 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

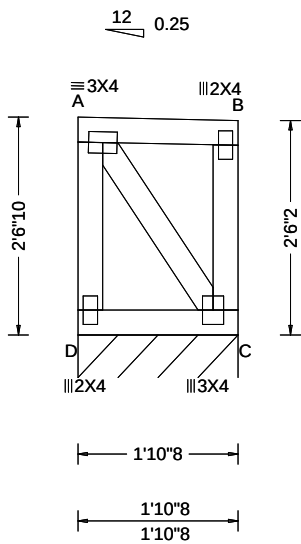


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SEQN: 37029 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE12	Cust: R 9316 JRef:1XIO93160003 T225 DrwNo: 139.22.0906.42021 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

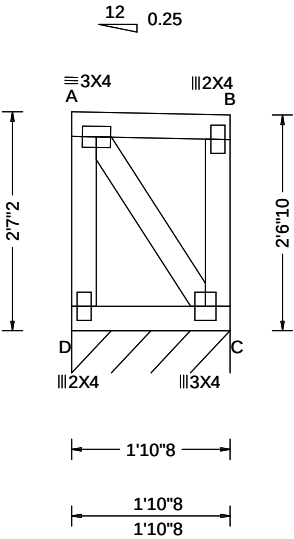


05/19/2022

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Building 11

SEQN: 37030 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE13	Cust: R 9316 JRef:1XIO93160003 T226 DrwNo: 139.22.0906.42013 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

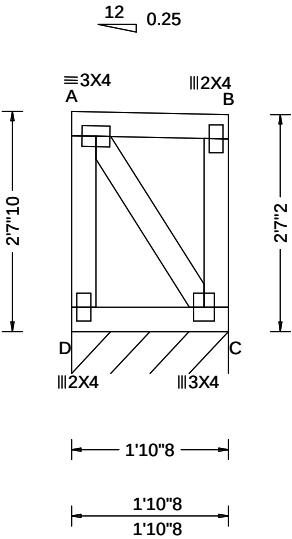
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 37031 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE14	Cust: R 9316 JRef:1XIO93160003 T227 DrwNo: 139.22.0906.42067 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.036 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022

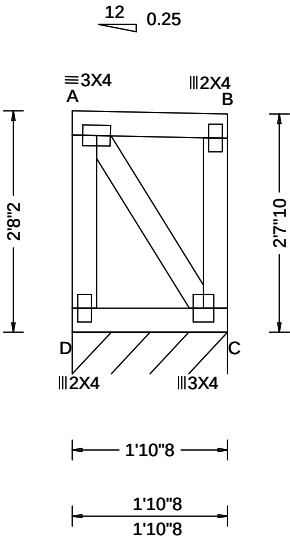
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37032 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE15	Cust: R 9316 JRef:1XIO93160003 T228 DrwNo: 139.22.0906.42496 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.037 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

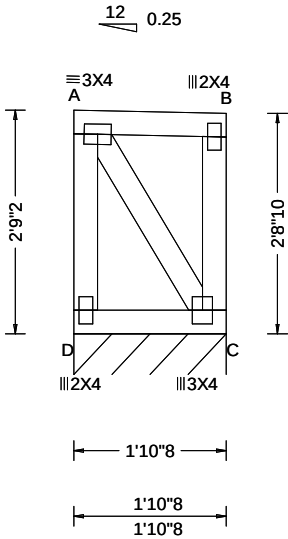


05/19/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

Building 11

SEQN: 37033 / FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE16	Cust: R 9316 JRef:1XIO93160003 T251 DrwNo: 139.22.0906.42361 / NDW 05/19/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00		Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240	C*	130	/-	/-	/61	/6	/25
BCDL: 15.00		Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -	Wind reactions based on MWFRS						
Des Ld: 65.00		EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	C Brg Wid = 22.5 Min Req = -						
NCBCLL: 0.00		Mean Height: 21.74 ft	Building Code:	Creep Factor: 2.0	Bearing D is a rigid surface.						
Soffit: 2.00		TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Members not listed have forces less than 375#						
Load Duration: 1.15		BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.040							
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
		Loc. from endwall: Any	Plate Type(s):								
		GCpi: 0.18									
		Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

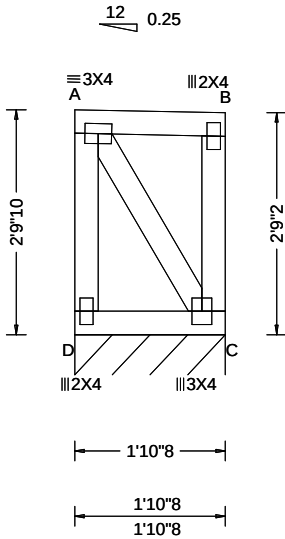


05/19/2022

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Building 11

SEQN: 37034 / FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE17	Cust: R 9316 JRef:1XIO93160003 T252 DrwNo: 139.22.0906.42327 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/26
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

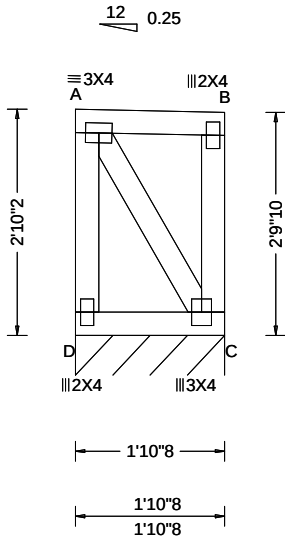


05/19/2022

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Building 11

SEQN: 37035 / FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE18	Cust: R 9316 JRef:1XIO93160003 T253 DrwNo: 139.22.0906.42020 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.82 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/26
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

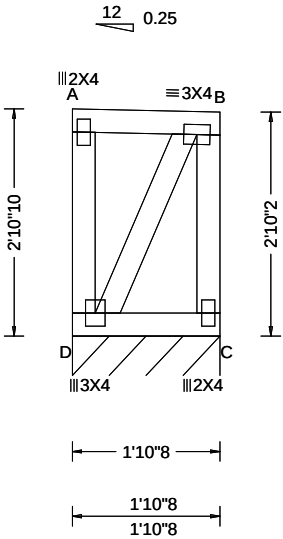


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Building 11

SEQN: 37036 FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE19	Cust: R 9316 JRef:1XIO93160003 T254 DrwNo: 139.22.1015.25600 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.043 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/27
				Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

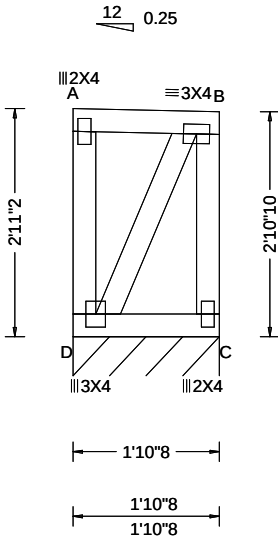
Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022

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SEQN: 37037 FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE20	Cust: R 9316 JRef:1XIO93160003 T255 DrwNo: 139.22.1015.32097 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.044 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/28
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



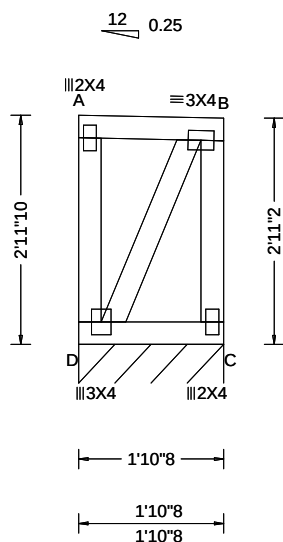
05/19/2022

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Building 11

SEQN: 37038	MONO	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1Xf093160003 T256
FROM:		Qty: 1	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.1015.34987
			Truss Label: TGE21	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=-PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240	C* 130 /- /- /61 /6 /28
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): -0.001 A - -	Wind reactions based on MWFRS
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	C Brg Wid = 22.5 Min Req = -
NCBCLL: 0.00	Mean Height: 22.62 ft	Building Code:	Creep Factor: 2.0	Bearing D is a rigid surface.
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Members not listed have forces less than 375#
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046	
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.046	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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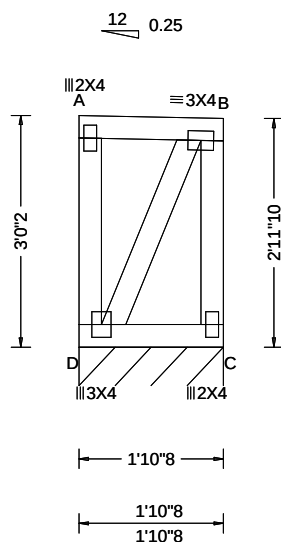
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinet.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37039	MONO	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1Xf093160003 T257
FROM:		Qty: 1	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.1015.39407
			Truss Label: TGE22	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=-PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): -0.000 B 999 360	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240	C* 130 /- /- /61 /6 /29
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): -0.001 A - -	Wind reactions based on MWFRS
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	C Brg Wid = 22.5 Min Req = -
NCBCLL: 0.00	Mean Height: 22.66 ft	Building Code:	Creep Factor: 2.0	Bearing D is a rigid surface.
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Members not listed have forces less than 375#
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046	
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.047	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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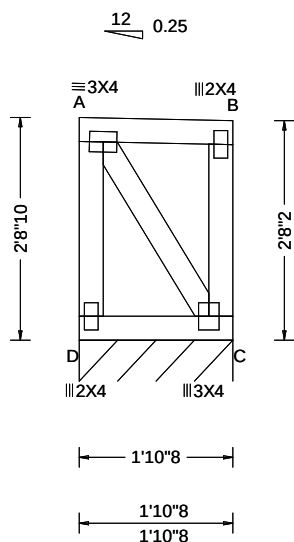
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinet.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37040 /	MONO	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef:1Xf093160003 T231
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.0906.42000
			Truss Label: TGE23	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * =PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 A 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240	C* 130 /- /- /61 /6 /25
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.000 B - -	Wind reactions based on MWFRS
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	C Brg Wid = 22.5 Min Req = -
NCBCLL: 0.00	Mean Height: 22.37 ft	Building Code:	Creep Factor: 2.0	Bearing D is a rigid surface.
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.053	Members not listed have forces less than 375#
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.046	
Spacing: 24.0 "	MWFRS Parallel Dist: > 2h	Rep Fac: Yes	Max Web CSI: 0.038	
	C&C Dist a: 3.00 ft	FT/RT: 20(0)/10(0)		
	Loc. from endwall: not in 29.00 ft	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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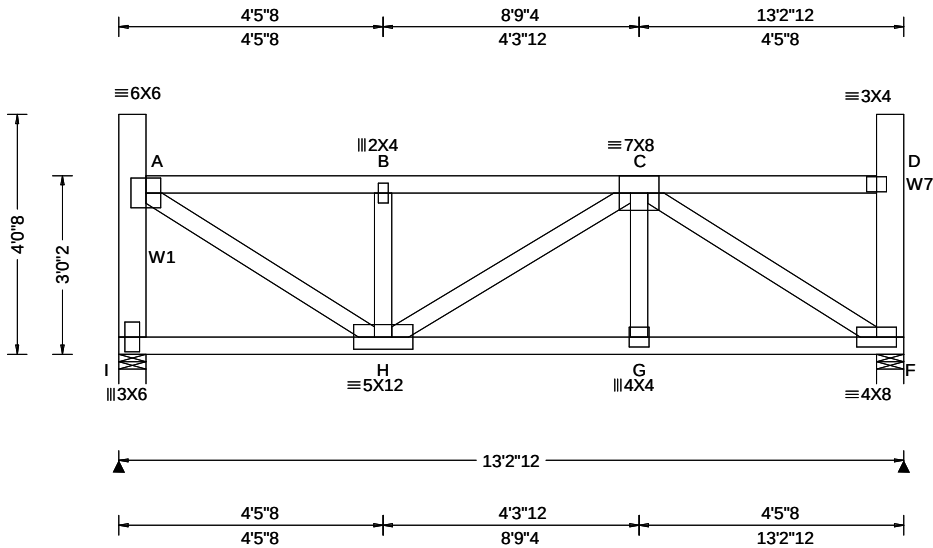
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37043 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T09	Cust: R 9316 JRef:1XIO93160003 T14 DrwNo: 139.22.0949.12417 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.038 B 999 360 VERT(CL): 0.071 B 999 240 HORZ(LL): 0.012 A - - HORZ(TL): 0.022 A - - Creep Factor: 2.0 Max TC CSI: 0.313 Max BC CSI: 0.556 Max Web CSI: 0.834 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 1464 -/- /- /161 -/ F 1371 -/- /- /124 -/ Non-Gravity Wind reactions based on MWFRS I Brg Wid = 5.5 Min Req = 2.1 (Truss) F Brg Wid = 5.5 Min Req = 2.0 (Truss) Bearings I & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 181 -1777 B - C 181 -1772

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 60 plf at 0.00 to 60 plf at 13.23
BC: 204 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 183 lb Conc. Load at 7.17, 9.17

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



05/19/2022

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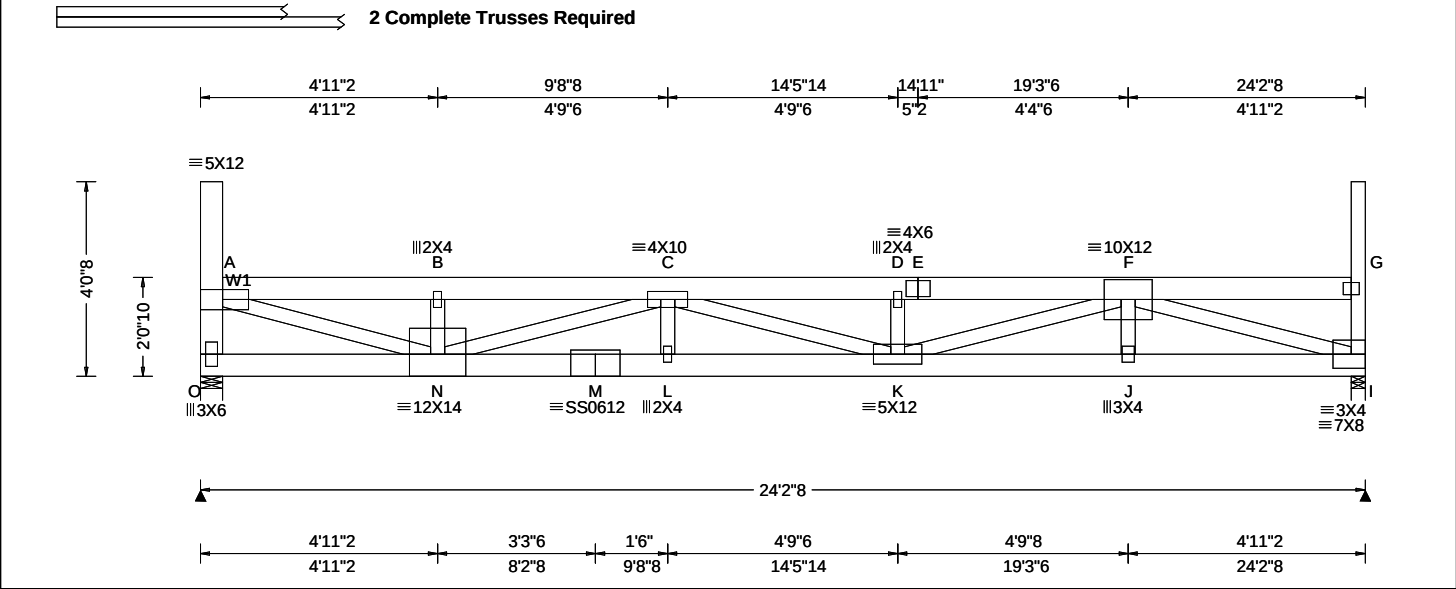
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 37045 FROM:	FLAT Qty: 2	Ply: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T16	Cust: R 9316 JRef:1XIO93160003 T9 DrwNo: 139.22.1000.59477 / NDW 05/19/2022
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Loading Criteria (psf)	TCLL: 20.00	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.264 D 999 360 VERT(CL): 0.490 D 592 240 HORZ(LL): 0.040 I - - HORZ(TL): 0.075 I - - Creep Factor: 2.0 Max TC CSI: 0.232 Max BC CSI: 0.653 Max Web CSI: 0.907 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
	TCDL: 15.00				Gravity			Non-Gravity			
	BCCL: 15.00				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCDL: 15.00				O	2486	-	-	-	/388	-
	Des Ld: 65.00				I	2496	-	-	-	/403	-
	NCBCLL: 0.00				Wind reactions based on MWFRS						
	Soffit: 2.00				O Brg Wid = 5.5		Min Req = 1.9 (Truss)				
	Load Duration: 1.15 Spacing: 24.0 "				I Brg Wid = 3.5		Min Req = 2.0 (Truss)				
					Bearings O & I are a rigid surface.						
					Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)											
		Chords		Tens.Comp.		Chords		Tens. Comp.			
A - B		517 - 3208		D - E		782 - 4709					
B - C		516 - 3200		E - F		782 - 4709					

Lumber Top chord: 2x6 SPF 1650f-1.5E; Bot chord: 2x6 SPF 1650f-1.5E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Wind Wind loads and reactions based on MWFRS. End verticals exposed to wind pressure. Deflection meets L/360.	Maximum Bot Chord Forces Per Ply (lbs) <table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>N - M</td><td>4702 - 769</td><td>K - J</td><td>3198 - 532</td></tr><tr><td>M - L</td><td>4702 - 769</td><td>J - I</td><td>3198 - 532</td></tr><tr><td>L - K</td><td>4702 - 769</td><td></td><td></td></tr></table>	Chords	Tens.Comp.	Chords	Tens. Comp.	N - M	4702 - 769	K - J	3198 - 532	M - L	4702 - 769	J - I	3198 - 532	L - K	4702 - 769		
Chords	Tens.Comp.	Chords	Tens. Comp.															
N - M	4702 - 769	K - J	3198 - 532															
M - L	4702 - 769	J - I	3198 - 532															
L - K	4702 - 769																	
Nailnote Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @10.25" o.c. Webs :1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.	Deflection Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.	Maximum Web Forces Per Ply (lbs) <table><tr><th>Webs</th><th>Tens.Comp.</th><th>Webs</th><th>Tens. Comp.</th></tr><tr><td>O - A</td><td>173 - 1110</td><td>K - F</td><td>1592 - 264</td></tr><tr><td>A - N</td><td>3172 - 513</td><td>F - I</td><td>552 - 3317</td></tr><tr><td>N - C</td><td>267 - 1583</td><td></td><td></td></tr></table>	Webs	Tens.Comp.	Webs	Tens. Comp.	O - A	173 - 1110	K - F	1592 - 264	A - N	3172 - 513	F - I	552 - 3317	N - C	267 - 1583		
Webs	Tens.Comp.	Webs	Tens. Comp.															
O - A	173 - 1110	K - F	1592 - 264															
A - N	3172 - 513	F - I	552 - 3317															
N - C	267 - 1583																	
Special Loads ----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 70 plf at 0.46 to 70 plf at 23.92	Additional Notes Truss must be installed as shown with top chord up.																	

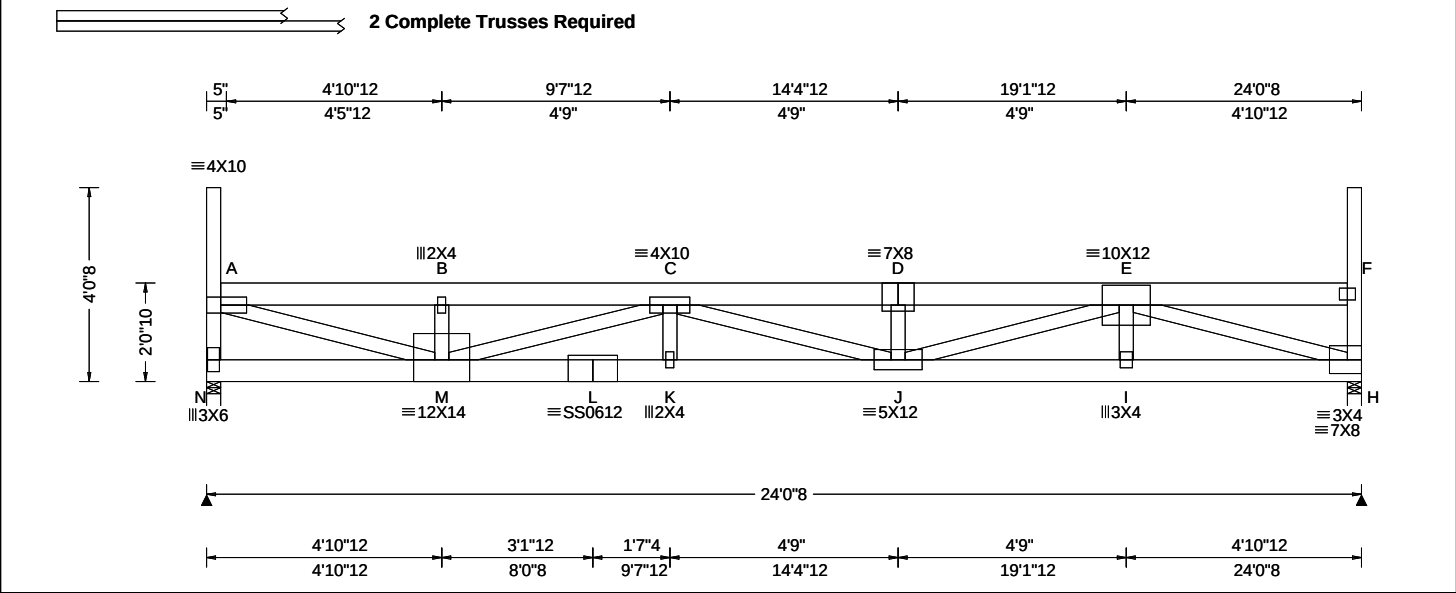


05/19/2022

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Building 11

SEQN: 37046 FROM:	FLAT Qty: 2	Ply: 2 Qty: 2	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T32	Cust: R 9316 JRef:1XIO93160003 T8 DrwNo: 139.22.1013.04320 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.258 D 999 360 VERT(CL): 0.479 D 601 240 HORZ(LL): 0.039 H - - HORZ(TL): 0.073 H - - Creep Factor: 2.0 Max TC CSI: 0.228 Max BC CSI: 0.646 Max Web CSI: 0.891 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 2499 - / - / - /411 - / - H 2477 - / - / - /396 - / - Wind reactions based on MWFRS N Brg Wid = 3.5 Min Req = 2.0 (Truss) H Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 535 -3181 C - D 776 -4647 B - C 534 -3173 D - E 776 -4647

Lumber Top chord: 2x6 SPF 1650f-1.5E; Bot chord: 2x6 SPF 1650f-1.5E; Webs: 2x4 SPF #1/#2;	Wind Wind loads and reactions based on MWFRS. End verticals exposed to wind pressure. Deflection meets L/360.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 4648 -783 J - I 3154 -520 L - K 4648 -783 I - H 3154 -520 K - J 4648 -783
Nailnote Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @10.00" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.	Deflection Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - A 182 -1117 J - E 1574 -271 A - M 3204 -540 E - H 540 -3274 M - C 263 -1556
Special Loads ----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 70 plf at 0.29 to 70 plf at 23.75 BC: From 60 plf at 0.00 to 60 plf at 24.04 BC: 173 lb Conc. Load at 1.90, 3.90, 7.90, 9.90 11.90,13.90,21.90 BC: 170 lb Conc. Load at 5.90,15.90,17.90,19.90	Additional Notes Truss must be installed as shown with top chord up.	

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.99 34.38 4.14
23.75 0.00 23.46 1.99 34.38 4.14
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.



05/19/2022

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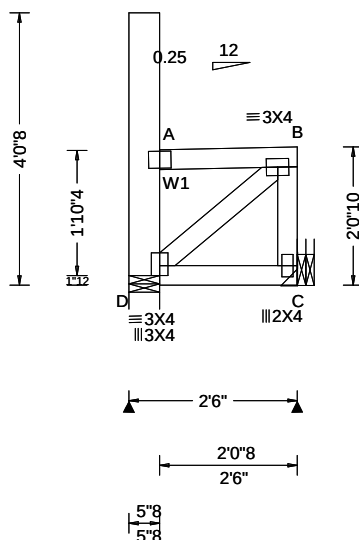
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36969	MONO	Ply: 1	Job Number: JB-220693	Cust: R 9316 JRef: 1Xf093160003 T7
FROM:		Qty: 17	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 139.22.0947.45770
			Truss Label: J02A	/ NDW 05/19/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	D 122 /- /- /98 /76 /62
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	C 170 /- /- /145 /56 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.70 ft	Building Code:	Creep Factor: 2.0	D Brg Wid = 5.5 Min Req = 1.5 (Support)
Softit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.102	C Brg Wid = - Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.079	Bearing D is a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.106	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load. W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets $L/360$.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



05/19/2022

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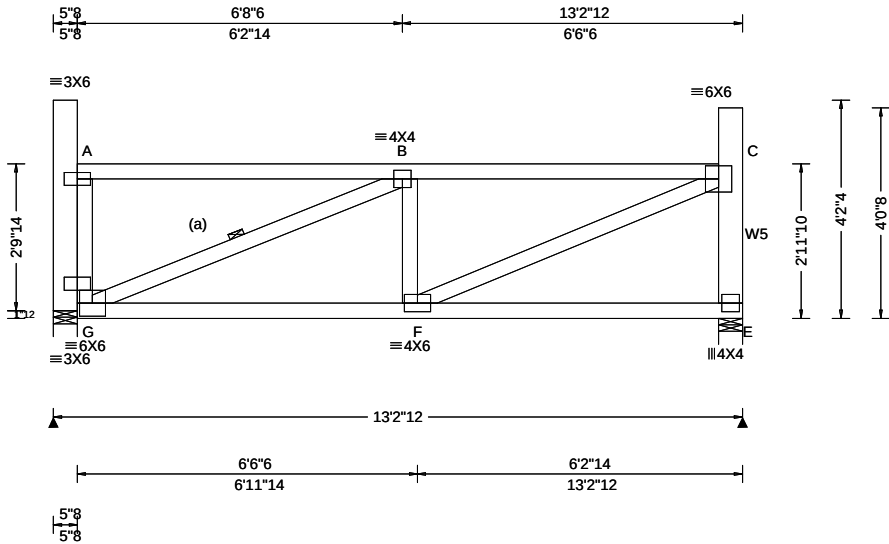
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 11

SEQN: 36977 FROM:	MONO Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08A	Cust: R 9316 JRef:1XIO93160003 T10 DrwNo: 139.22.0949.02650 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.036 B 999 360 VERT(CL): 0.067 B 999 240 HORZ(LL): 0.007 E - - HORZ(TL): 0.013 E - - Creep Factor: 2.0 Max TC CSI: 0.705 Max BC CSI: 0.887 Max Web CSI: 0.297 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL G 823 /- /- /395 /51 /79 E 805 /- /- /382 /48 /- Non-Gravity Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 99 - 1198

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11965.47" if used)

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.		
G - F	1195	- 107	
Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
A - G	655	- 22	F - C 1198 - 100
G - A	51	- 824	C - E 63 - 651
G - B	94	- 1265	

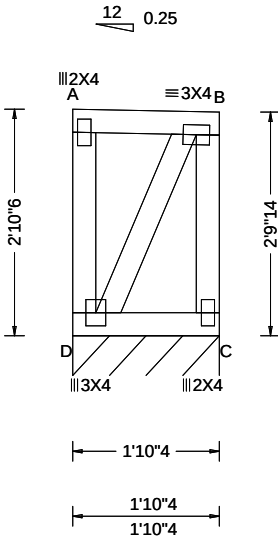


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SEQN: 37041 FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE24	Cust: R 9316 JRef:1XIO93160003 T13 DrwNo: 139.22.1015.48073 / NDW 05/19/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.052 Max BC CSI: 0.045 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/27
				Wind reactions based on MWFRS						
				C Brg Wid = 22.2 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

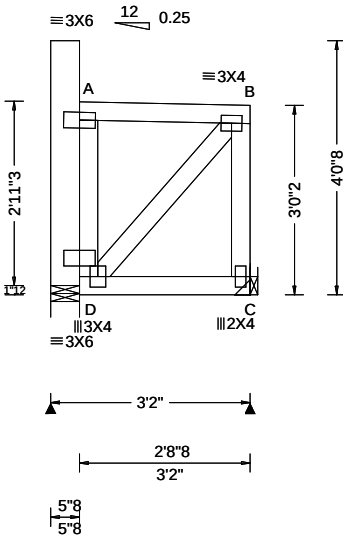
Additional Notes
Truss must be installed as shown with top chord up.



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SEQN: 37013 FROM:	MONO Ply: 1 Qty: 4	Job Number: JB-220693 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48A	Cust: R 9316 JRef:1XIO93160003 T3 DrwNo: 139.22.1014.52860 / NDW 05/19/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.000 D 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.001 D 999 240		D	170	/-	/-	/79	/10	/1
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.000 C - -		C	183	/-	/-	/85	/8	/-
Des Ld: 65.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE		HORZ(TL): 0.000 C - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 22.71 ft				Creep Factor: 2.0		D Brg Wid = 5.5 Min Req = 1.5 (Support)						
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.120		C Brg Wid = - Min Req = -						
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.103		Bearing D is a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2				Max Web CSI: 0.023		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft						VIEW Ver: 21.02.00.1005.17						
		Loc. from endwall: Any												
		GCpi: 0.18												
		Wind Duration: 1.60												

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11938.37" if used)

Additional Notes

Truss must be installed as shown with top chord up.



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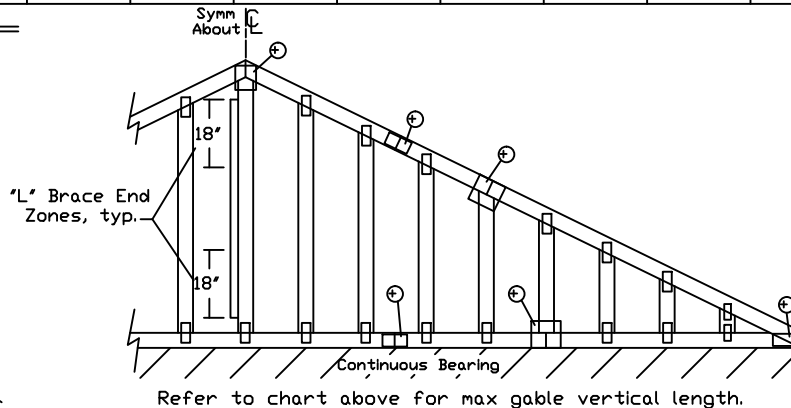
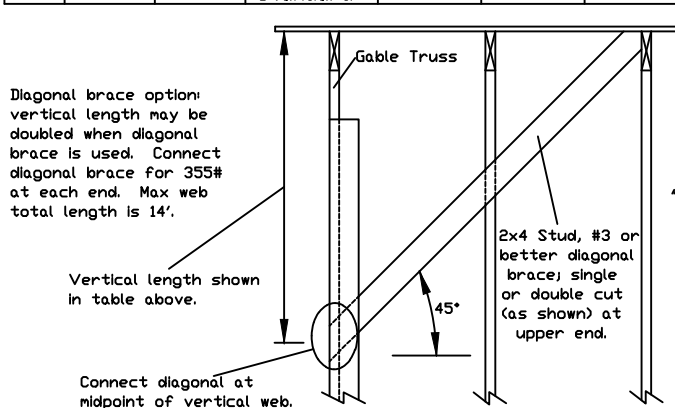
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Gable Stud Reinforcement Detail

ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical Spacing		Brace	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **		
	Species	Grade	Group A		Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B		
24" O.C.	SPF	HF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"	
			#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
			Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
		DFL	#1	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"	
			#2	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"	
			#3	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"	
	SP	DFL	#1	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
			Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
			Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"	
		SPF	HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
				#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
				Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
SP	DFL		Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"	
			#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
			#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"	
	12" O.C.	SPF	DFL	#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
				Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
				Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
SP			DFL	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	DFL	Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
SP			DFL	#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
				Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"



Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.

* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.

** For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.



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For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB11530

DATE 01/26/2018

DRWG A11530ENC160118

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

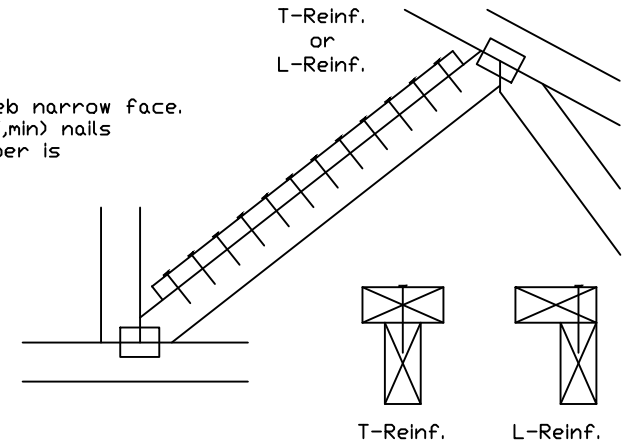
Web Member Size	Specified CLR Restraint	Alternative Reinforcement	
		T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

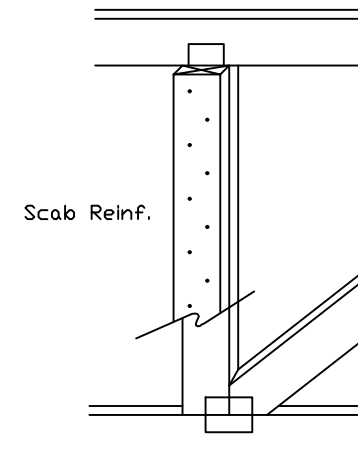
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



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For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



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For more information see this job's general notes page and these web sites:
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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements

Top: Continuous roof sheathing

Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail
for lumber, plates, and other information not shown
on this detail.

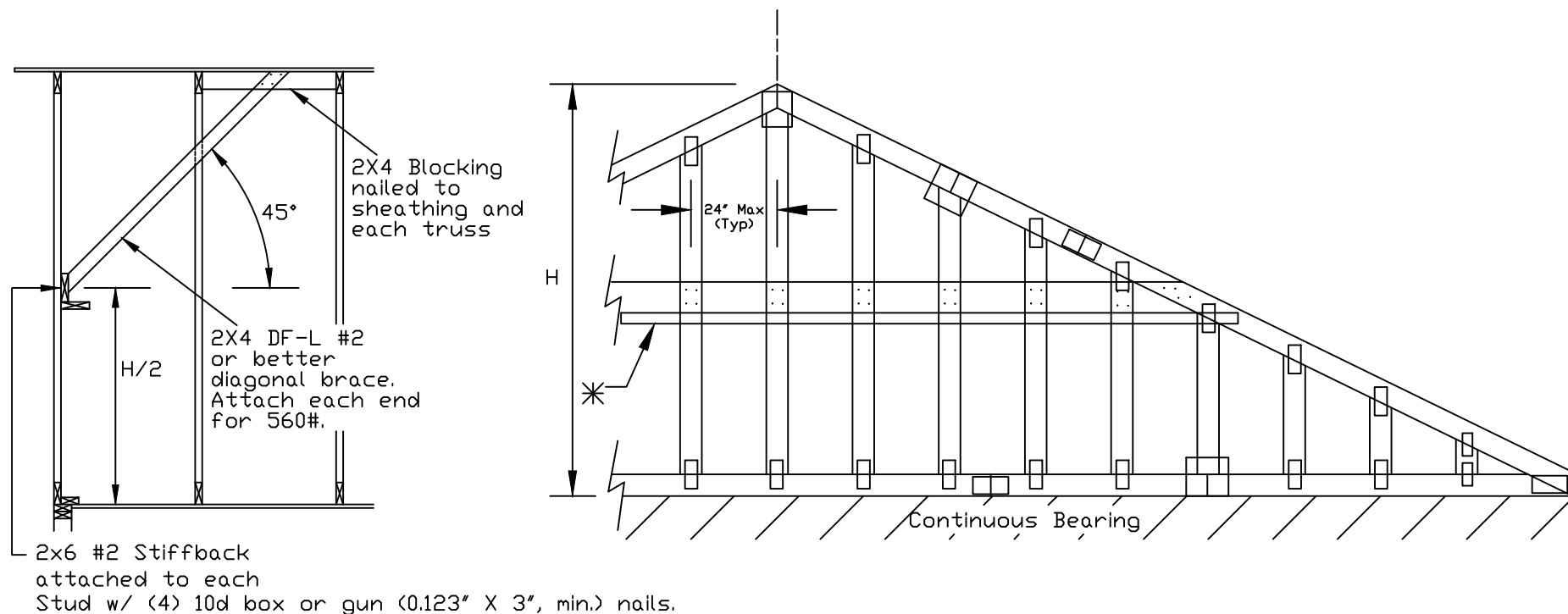
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback
to roof diaphragm every 6'0" (see detail below or
refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace
to roof diaphragm every 4'0" (see detail below or
refer to DRWG A12030ENC160118).

* Optional 2x L-reinforcement attached
to stiffback with 10d box or gun
(0.128" x 3", min.) nails @ 6" o.c.



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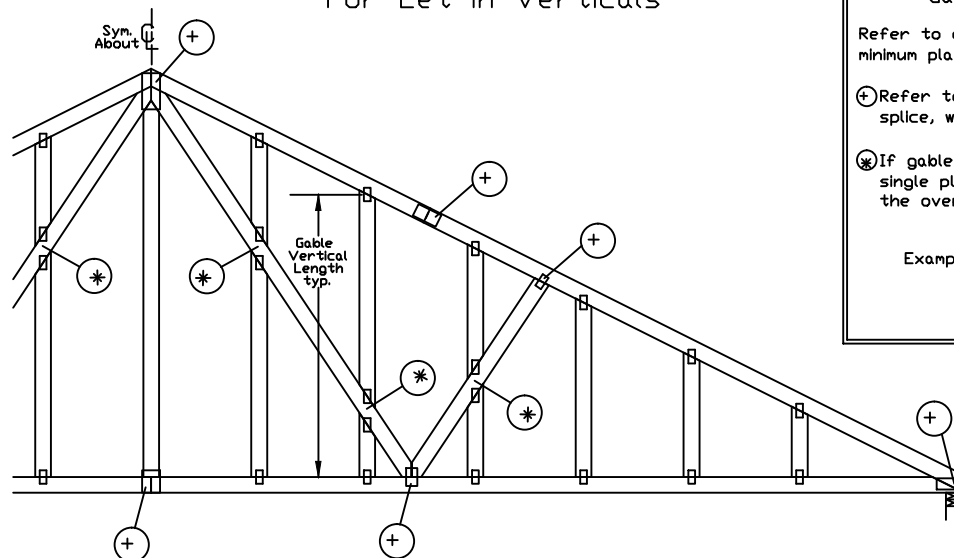
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

MAX. TOT. LD. 60 PSF

MAX. SPACING

REF GE WHALER
DATE 01/02/2018
DRWG GABRST160118

Gable Detail For Let-in Verticals



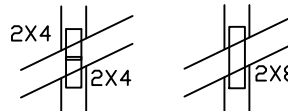
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

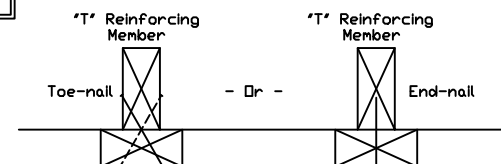
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



'T' Reinforcement Attachment Detail



To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate Alpine gable detail).

Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member.

Web Length Increase w/ 'T' Brace

'T' Reinf. Mbr. Size	'T' Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

Gable Vertical = 24' o.c. SP #3

'T' Reinforcing Member Size = 2x4

'T' Brace Increase (From Above) = 30% = 1.30

(1) 2x4 'L' Brace Length = 8' 7"

Maximum 'T' Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:

10d Common (0.148"x3",min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x3",min) Toenails at 4' o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

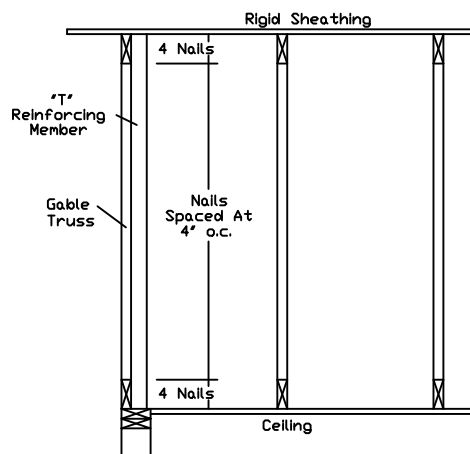
ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,
A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings

A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,
A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118,
A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,
A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118,
S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118,
S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118,
S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118,
S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



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For more information see this job's general notes page and these web sites:
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REF LET-IN VERT

DATE 01/02/2018

DRWG GBLLETIN0118

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"



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

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Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 11 Truss	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 11 Roof Layout

Total Truss Quantity = 349.

Total Plan Area with OHs = 4539 sq.ft

HANGER CHART					BEARING WALL & BEAM HEIGHTS
Symbol	Name	Qty	Manufacturer		
	= HUS26	2	Simpson		19'8"
	= LUS24	78	Simpson		19'9-3/4"

SHOP DRAWING REVIEW

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

☐ APPROVED

☐ FURNISH AS CORRECTED

☐ REJECTED, REVISE & RESUBMIT

☐ RETURNED NOT REVIEWED

☒ REVIEWED

REFER TO REVISIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.

STRUCTURAL ENGINEERS

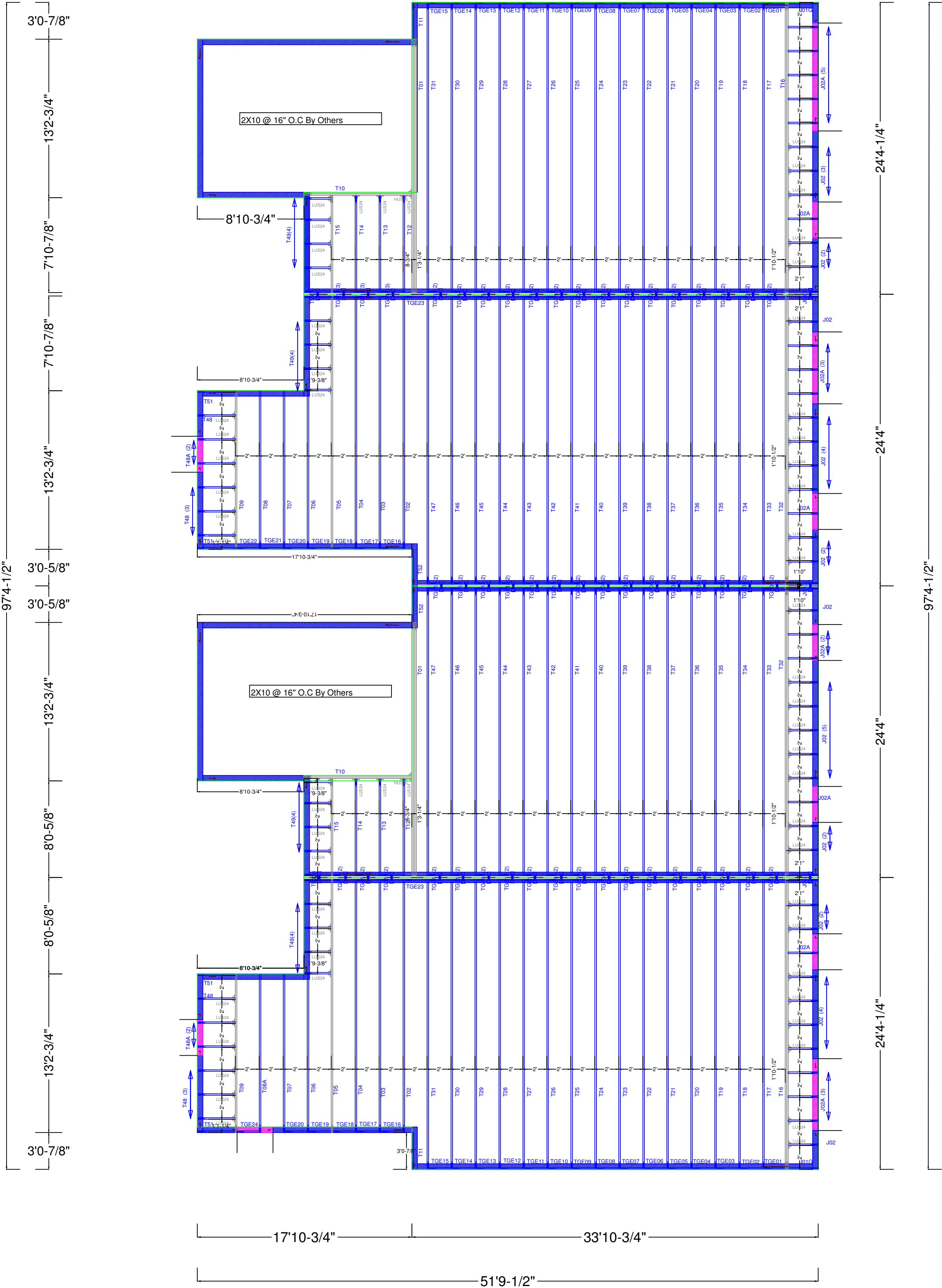
DATE: 05/30/2022 BY: CB

REVIEWED ☒ DATE RECIEVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



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Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 12 Truss	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

Group 12 Floor Layout

Total Truss Quantity = 180.

Total Plan Area with OHs = 4292 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	126	Simpson
=	THA422-2	4	Simpson

SHOP DRAWING REVIEW

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

APPROVED

FURNISH AS CORRECTED

REJECTED, REVISE & RESUBMIT

RETURNED NOT REVIEWED

REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.

STRUCTURAL ENGINEER

DATE: 05/30/2022 BY: CB

REVIEWED ☒

DATE RECEIVED:

REVIEWED AS NOTED ☐

DATE REVIEWED: 6/6/2022

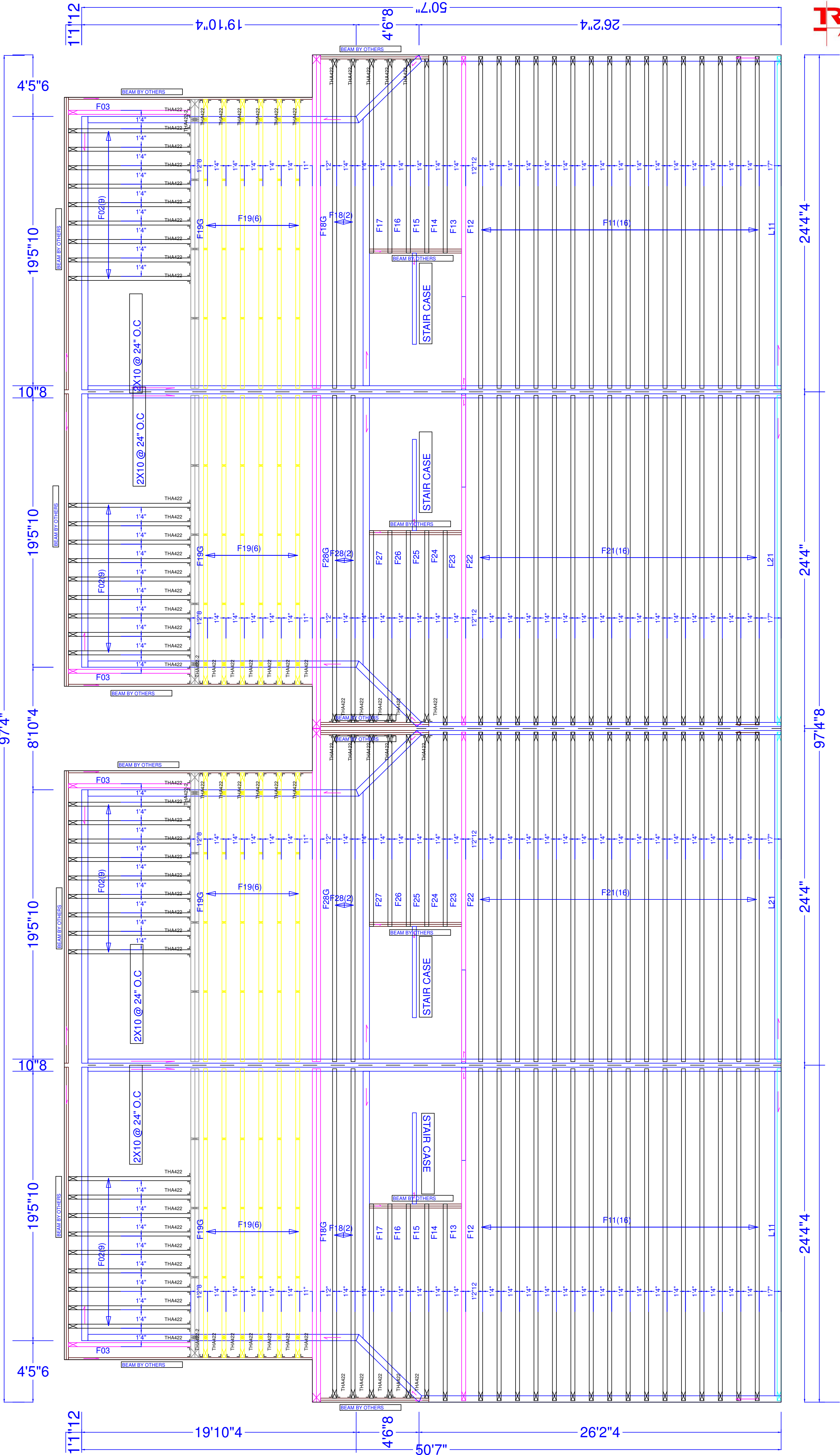
REVISE AND RESUBMIT ☐

REVIEWED BY: michaela.silva

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St. Louis, Missouri 63144
314.395.9750
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Job Name:

Customer:

McCambridge Brothers Construction

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Designer: Juan R Quiroz

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Reference #: JB-220695

Date: 3/17/2022



3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

NOTE: Yellow ID Tag Location Indicates Left/Right Direction of Trusses



Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone (800) 326-4102 / (314) 344-9121
alpineitw.com

03/17/2022

REVIEWED ☒ DATE RECIEVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 6/6/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva
SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR SHOP DRAWINGS WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/30/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220695
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:		
Design Code: IBC 2018		IntelliVIEW Version: 21.02.00 JRef #: 1XdX93160010
Wind Standard: ASCE716	Wind Speed (mph): 0	Design Loading (psf): 75.00
Building Type:		

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss
1	076.22.1326.04567	F02
3	076.22.1326.05514	F11
5	076.22.1326.05007	F13
7	076.22.1326.04867	F15
9	076.22.1326.05515	F17
11	076.22.1326.05516	F18G
13	076.22.1326.18597	F19G
15	076.22.1326.05671	F22
17	076.22.1326.04594	F24
19	076.22.1326.04608	F26
21	076.22.1326.04643	F28
23	076.22.1326.05011	L11
25	CNSY42PL0118	
27	LSCSYX2A1014	

Item	Drawing Number	Truss
2	076.22.1326.05006	F03
4	076.22.1326.05135	F12
6	076.22.1326.04868	F14
8	076.22.1326.05438	F16
10	076.22.1326.04593	F18
12	076.22.1326.18483	F19
14	076.22.1326.04531	F21
16	076.22.1326.04863	F23
18	076.22.1326.05143	F25
20	076.22.1326.04597	F27
22	076.22.1326.04573	F28G
24	076.22.1326.05433	L21
26	DEFLCAMB1014	
28	STRBRIBR1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

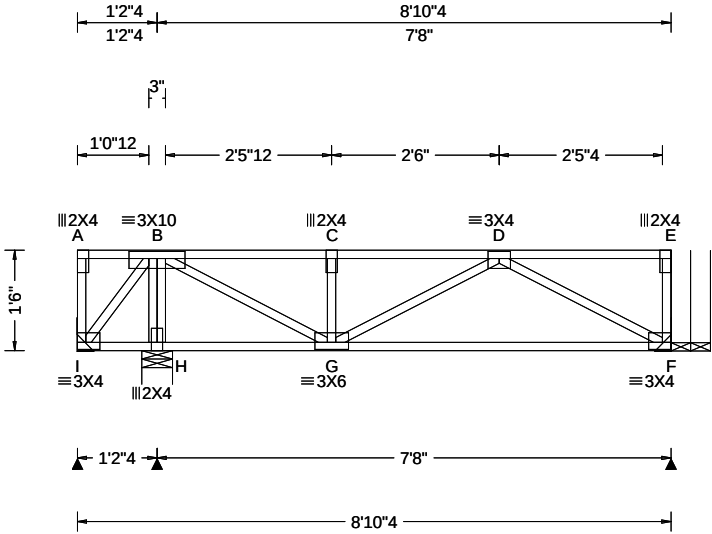
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 12

SEQN: 12902 / FROM:	SY42 Qty: 36	Ply: 1 Qty: 36	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F02	Cust: R 9316 JRef:1XdX93160010 T6 DrwNo: 076.22.1326.04567 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.018 C 999 480 VERT(CL): 0.034 C 999 360 HORZ(LL): 0.002 F - - HORZ(TL): 0.004 F - - Creep Factor: 2.0 Max TC CSI: 0.299 Max BC CSI: 0.301 Max Web CSI: 0.162 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL I 28 /-43 /- /- /- /- H 525 /- /- /- /- /- F 372 /- /- /- /- /- I Brg Wid = - Min Req = - H Brg Wid = 5.5 Min Req = 1.5 (Truss) F Brg Wid = - Min Req = - Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;
Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	0 -485	C - D	0 -485
G - F 473 0			
Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
B - H	0 -499	D - F	0 -537
B - G	576 0		



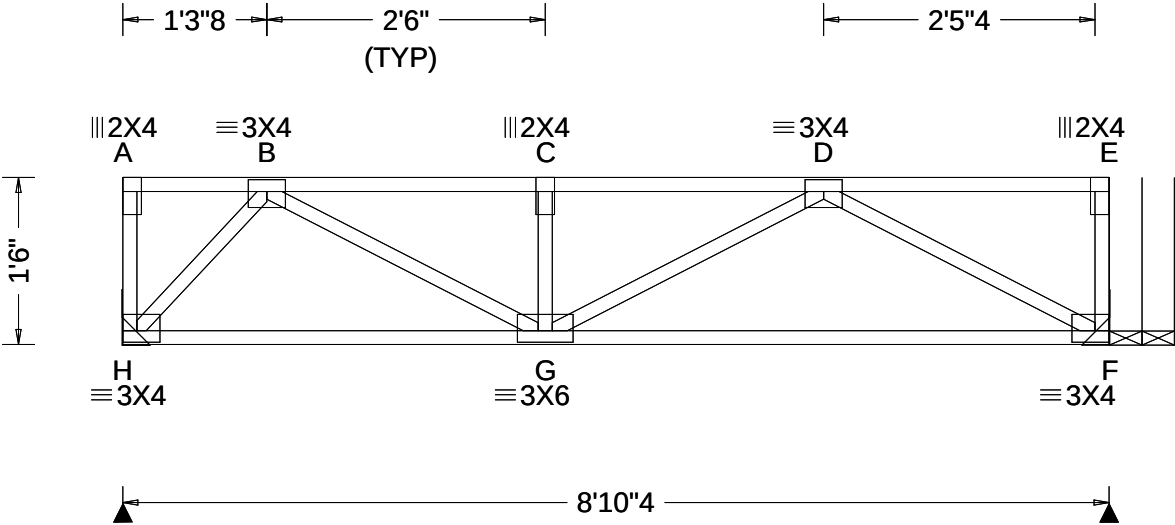
03/17/2022

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 12

SEQN: 12904 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F03	Cust: R 9316 JRef:1XdX93160010 T7 / DrwNo: 076.22.1326.05006 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.024 C 999 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.046 C 999 360		H	443	/-	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): 0.004 B - -		F	443	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code:		HORZ(TL): 0.008 B - -		H Brg Wid = -		Min Req = -				
NCBCLL: 0.00		Mean Height: NA ft				Creep Factor: 2.0		F Brg Wid = -		Min Req = -				
Soffit: 0.00		TCDL: NA psf		IBC 2018		Max TC CSI: 0.298		Members not listed have forces less than 375#						
Load Duration: 1.00		BCDL: NA psf		TPI Std: 2014		Max BC CSI: 0.324		Maximum Top Chord Forces Per Ply (lbs)						
Spacing: 16.0 "		MWFRS Parallel Dist: NA		Rep Fac: Yes		Max Web CSI: 0.141		Chords	Tens.Comp.		Chords	Tens. Comp.		
		C&C Dist a: NA ft		FT/RT:12(0)/10(0)				B - C	0	-747	C - D	0	-747	
		Loc. from endwall: NA		Plate Type(s):				Maximum Bot Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA		WAVE		VIEW Ver: 21.02.00.1005.17								
		Wind Duration: NA												

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.



03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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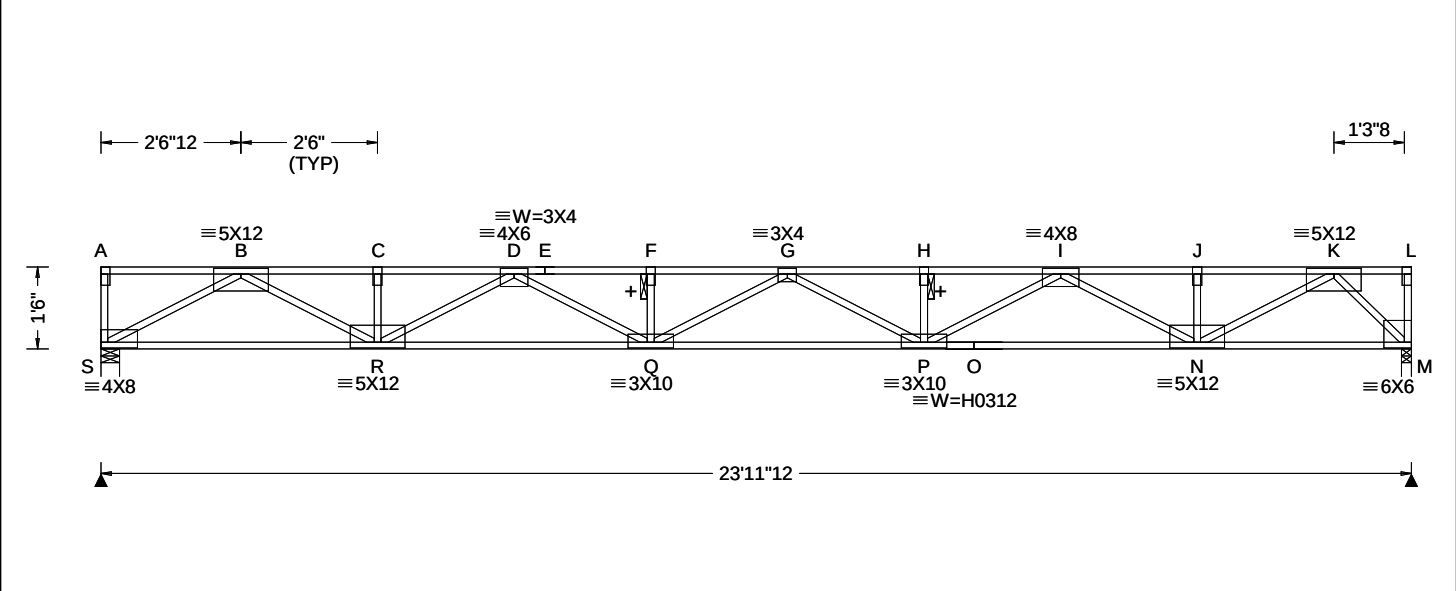
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12906 / FROM:	SY42 Qty: 32	Ply: 1	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F11	Cust: R 9316 JRef:1XdX93160010 T28 / DrwNo: 076.22.1326.05514 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)	
TCLL:	40.00	Wind Std:	NA	Pg: NA	Ct: NA	PP Deflection in	loc L/def L/#	Gravity	
TCCL:	25.00	Speed:	NA mph	Pf: NA	Ce: NA	VERT(LL):	0.414 G 695 480	Loc	R+ / R- / Rh
BCCL:	0.00	Enclosure:	NA	Lu: NA	Cs: NA	VERT(CL):	0.775 G 371 360	S	1199 /- /- /- /- /-
BCDL:	10.00	Category:	NA	Snow Duration:	NA	HORZ(LL):	0.057 M - -	M	1199 /- /- /- /- /-
Des Ld:	75.00	EXP: NA	Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS		HORZ(TL):	0.107 M - -	S	Brg Wid = 4.1 Min Req = 1.5 (Truss)
NCBCLL:	0.00	Mean Height:	NA ft			Creep Factor:	2.0	M	Brg Wid = 2.1 Min Req = 1.5 (Truss)
Soffit:	0.00	TCCL:	NA psf			Max TC CSI:	0.398	Bearings S & M are a rigid surface.	
Load Duration:	1.00	BCDL:	NA psf			Max BC CSI:	0.672	Members not listed have forces less than 375#	
Spacing:	16.0 "	C&C Dist a:	NA ft	VIEW Ver: 21.02.00.1005.17		Max Web CSI:	0.551	Maximum Top Chord Forces Per Ply (lbs)	
		Loc. from endwall:	NA					Chords	Tens.Comp.
		I: NA	GCpi: NA					Chords	Tens. Comp.
		Wind Duration:	NA					B - C	0 - 3522

Lumber Top chord: 4x2 DF-L 2400f-2.0E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;		Plating Notes All plates are 2X4 except as noted.		Deflection Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCMB1014 for camber recommendations.		Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. S - R 2010 0 P - O 4106 0 R - Q 4523 0 O - N 4106 0 Q - P 5219 0 N - M 1183 0	
Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.		Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - B 0 - 2281 P - I 925 0 B - R 1725 0 I - N 0 - 1382 R - D 0 - 1143 N - K 1954 0 D - Q 684 0 K - M 0 - 1648					

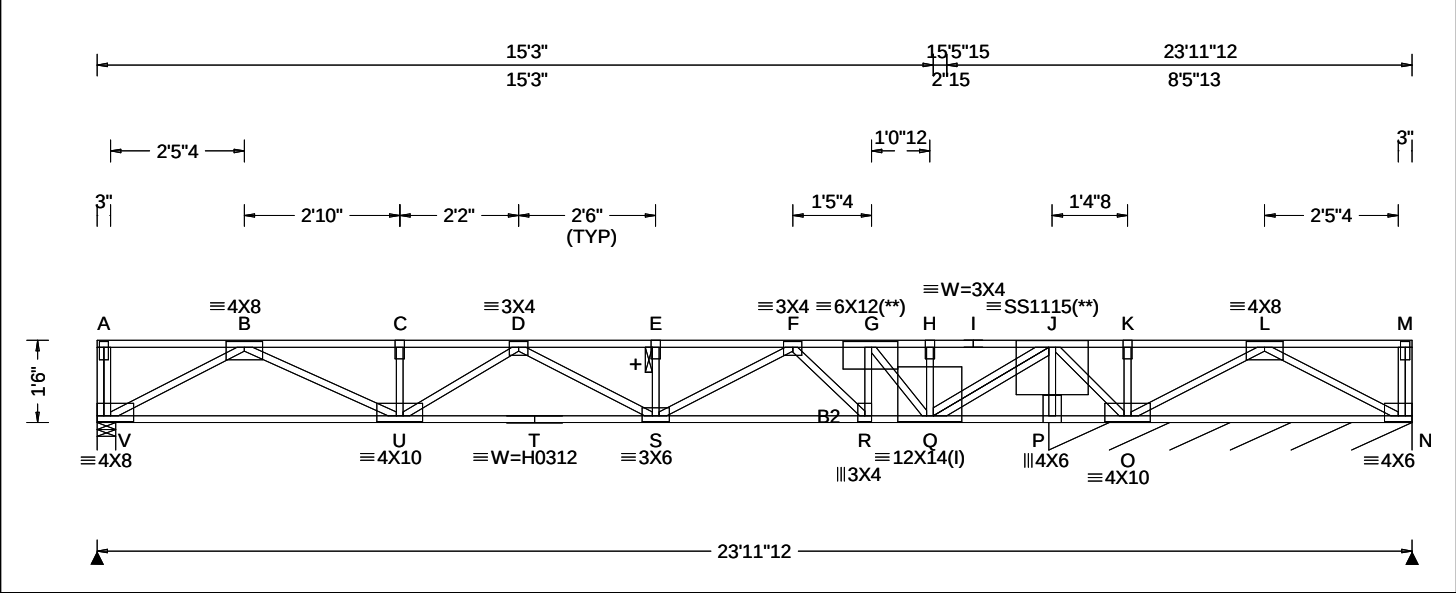


03/17/2022

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Building 12

SEQN: 12908 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F12	Cust: R 9316 JRef:1XdX93160010 T1 / DrwNo: 076.22.1326.05135 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.201 E 999 480 VERT(CL): 0.377 E 545 360 HORZ(LL): 0.029 B - - HORZ(TL): 0.054 B - - Creep Factor: 2.0 Max TC CSI: 0.946 Max BC CSI: 0.960 Max Web CSI: 0.568 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL V 961 -/- /- /- /- /- N* 443 -/- /- /- /- /- N -/-304 V Brg Wid = 4.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2615 G - H 0 -818 C - D 0 -2615 H - I 0 -818 D - E 0 -3202 I - J 0 -818 E - F 0 -3202 J - K 2031 0 F - G 0 -2426 K - L 2031 0

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads
-----(Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.98
BC: From 13 plf at 0.00 to 13 plf at 23.98
TC: 1500 lb Conc. Load at 14.06

Plating Notes
All plates are 2X4 except as noted.
(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.



03/17/2022

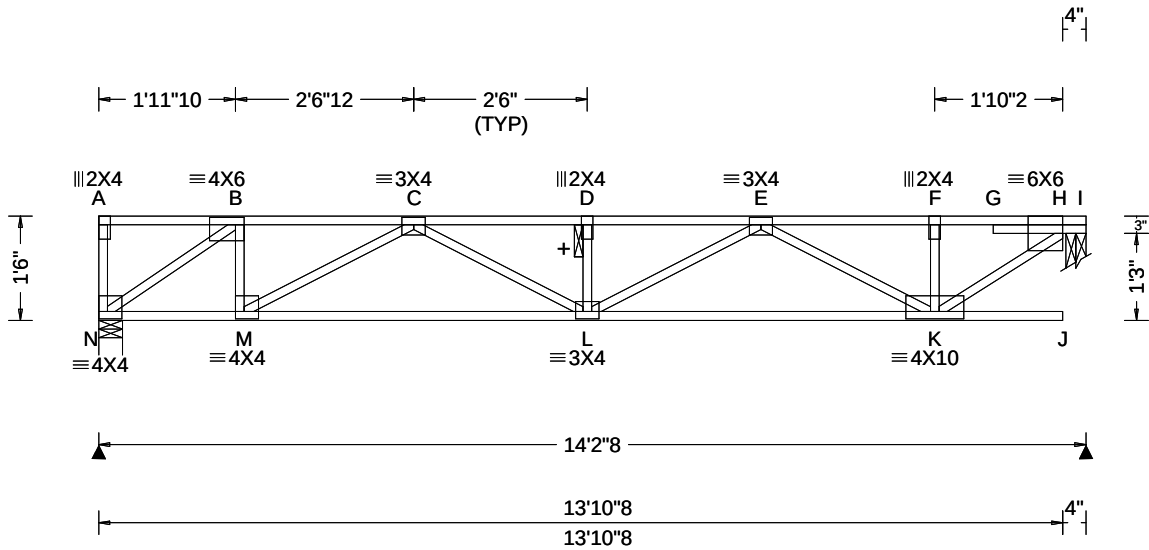
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AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12910 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F13	Cust: R 9316 JRef:1XdX93160010 T23 / DrwNo: 076.22.1326.05007 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.096 D 999 480 VERT(CL): 0.179 D 942 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.620 Max BC CSI: 0.537 Max Web CSI: 0.329 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 702 /- /- /- /- /- H 714 /- /- /- /- /- N Brg Wid = 4.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -943 E - F 0 -943 C - D 0 -1836 F - H 0 -942 D - E 0 -1836 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. N - M 905 0 L - K 1574 0 M - L 1582 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 0 -1104 E - K 0 -721 B - M 416 0 K - H 1166 0 M - C 0 -734

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

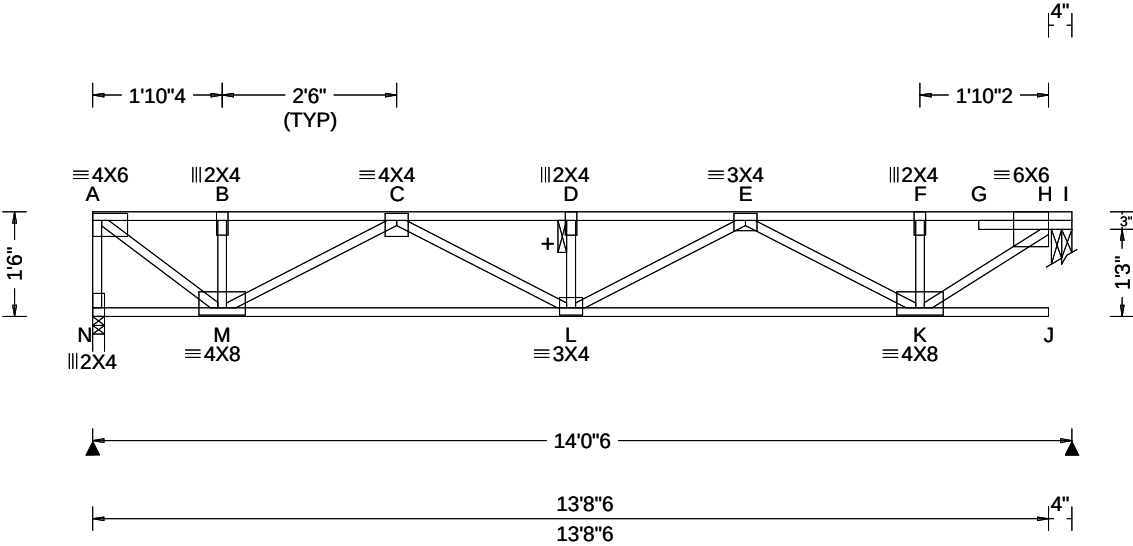


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Suite 242
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SEQN: 12912 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F14	Cust: R 9316 JRef:1XdX93160010 T15 / DrwNo: 076.22.1326.04868 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)							
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/def L/#			Gravity			Non-Gravity				
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.093 D 999 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.174 D 955 360			N	693	/-	/-	/-	/-	/-	
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): 0.014 B - -			H	706	/-	/-	/-	/-	/-	
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE			HORZ(TL): 0.026 B - -			N Brg Wid = 2.0 Min Req = 1.5 (Truss)							
NCBCLL: 0.00		Mean Height: NA ft					Creep Factor: 2.0			H Brg Wid = 3.5 Min Req = 1.5 (Truss)							
Soffit: 0.00		TCDL: NA psf					Max TC CSI: 0.612			Bearings N & H are a rigid surface.							
Load Duration: 1.00		BCDL: NA psf					Max BC CSI: 0.524			Members not listed have forces less than 375#							
Spacing: 16.0 "		MWFRS Parallel Dist: NA					Max Web CSI: 0.324			Maximum Top Chord Forces Per Ply (lbs)							
		C&C Dist a: NA ft								Chords		Tens.Comp.		Chords		Tens. Comp.	
		Loc. from endwall: NA								A - B		0 -849		D - E		0 -1791	
		I: NA GCpi: NA								B - C		0 -849		E - F		0 -929	
		Wind Duration: NA								C - D		0 -1791		F - H		0 -929	

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1520 0	L - K	1546 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -690	E - K	0 -703
A - M	1057 0	K - H	1150 0
M - C	0 -766		

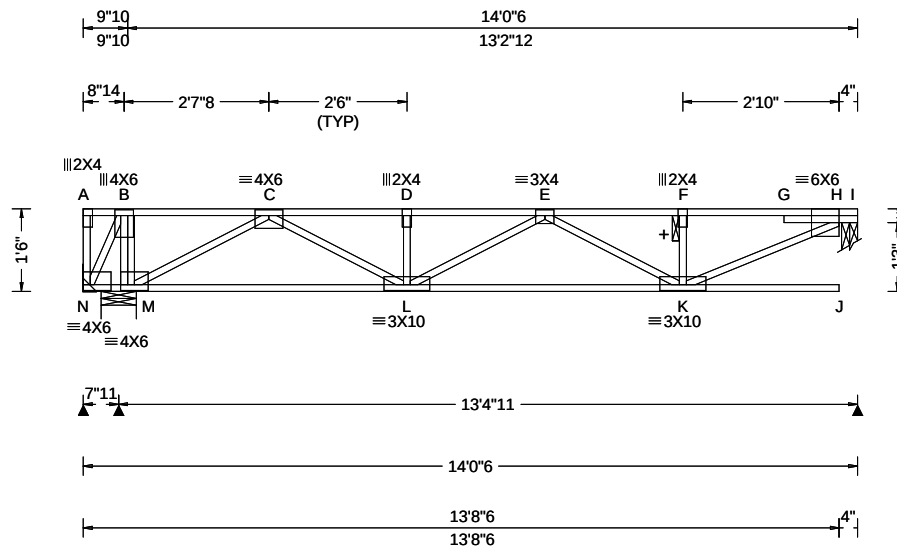


03/17/2022

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SEQN: 12914 /	SY42	Ply: 1	Job Number: JB-220695	Cust: R 9316 JRef:1XdX93160010 T26 /
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 076.22.1326.04867
			Truss Label: F15	/ NDW 03/17/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.200 J 780 480	Non-Gravity
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.320 J 487 360	Loc R+ / R- / Rh / Rw / U / RL
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.011 C - -	N - /-708 /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.020 C - -	N 1480 /- /- /- /- /-
NCBCLL: 0.00	Mean Height: NA ft			H 618 /- /- /- /- /-
Soffit: 0.00	TCDL: NA psf	Building Code:	Creep Factor: 2.0	N Brg Wid = - Min Req = -
Load Duration: 1.00	BCDL: NA psf	IBC 2018	Max TC CSI: 0.961	N Brg Wid = 7.7 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	TPI Std: 2014	Max BC CSI: 0.588	H Brg Wid = 3.5 Min Req = 1.5 (Truss)
	C&C Dist a: NA ft	Rep Fac: Yes	Max Web CSI: 0.339	Bearings N & H are a rigid surface.
	Loc. from endwall: NA	FT/RT:12(0)/10(0)		Members not listed have forces less than 375#
	I: NA GCpi: NA	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	Wind Duration: NA	WAVE	VIEW Ver: 21.02.00.1005.17	Chords Tens.Comp. Forces Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2:

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.



03/17/2022

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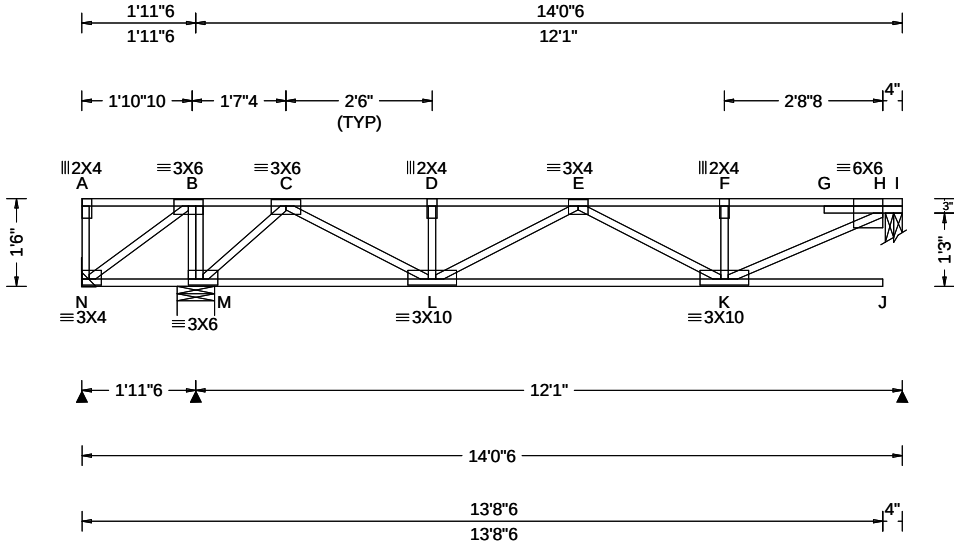
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Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12916 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F16	Cust: R 9316 JRef:1XdX93160010 T33 / DrwNo: 076.22.1326.05438 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.159 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.283 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-323 /- /- /- /- M 1131 /- /- /- /- /- I 547 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 SPF #1/#2; Bot chord: 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. N - M 0 -469 L - K 1034 0
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Deflection Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 580 0 C - L 816 0 B - M 0 -512 K - H 1004 0 M - C 0 -842
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Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
Truss must be installed as shown with top chord up.

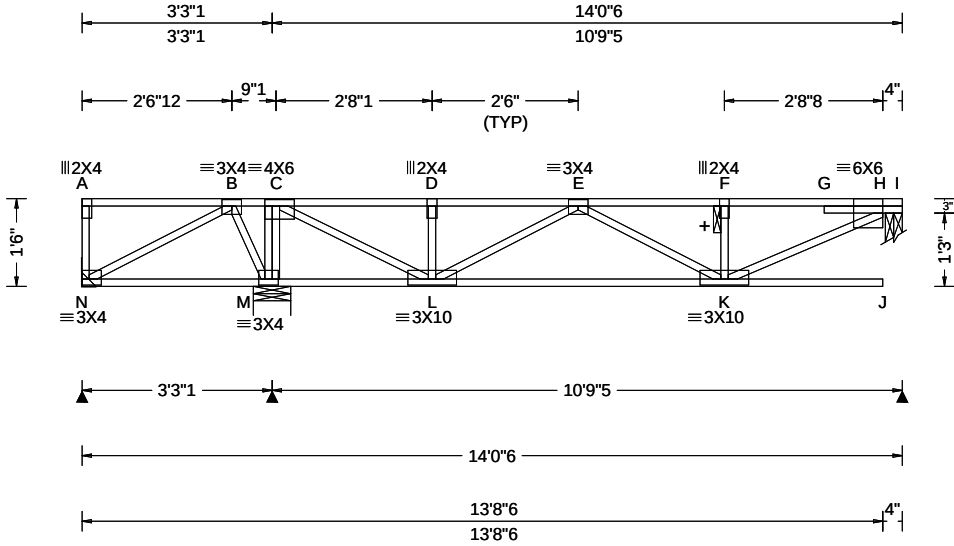


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SEQN: 12918 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F17	Cust: R 9316 JRef:1XdX93160010 T20 / DrwNo: 076.22.1326.05515 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/def L/#			Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.147 J 870 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.233 J 550 360			N	57	/-122	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): 0.004 C - -			M	959	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code:			HORZ(TL): 0.007 C - -			I	491	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft					Creep Factor: 2.0			N Brg Wid = - Min Req = -						
Soffit: 0.00		TCDL: NA psf		IBC 2018			Max TC CSI: 0.749			M Brg Wid = 7.7 Min Req = 1.5 (Truss)						
Load Duration: 1.00		BCDL: NA psf		TPI Std: 2014			Max BC CSI: 0.437			I Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Spacing: 16.0 "		MWFRS Parallel Dist: NA		Rep Fac: Yes			Max Web CSI: 0.272			Bearings M & H are a rigid surface.						
		C&C Dist a: NA ft		FT/RT:12(0)/10(0)						Members not listed have forces less than 375#						
		Loc. from endwall: NA		Plate Type(s):						Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA		WAVE			VIEW Ver: 21.02.00.1005.17			Chords Tens.Comp. Chords Tens. Comp.						
		Wind Duration: NA								B C 423 0 E F 0 784						

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

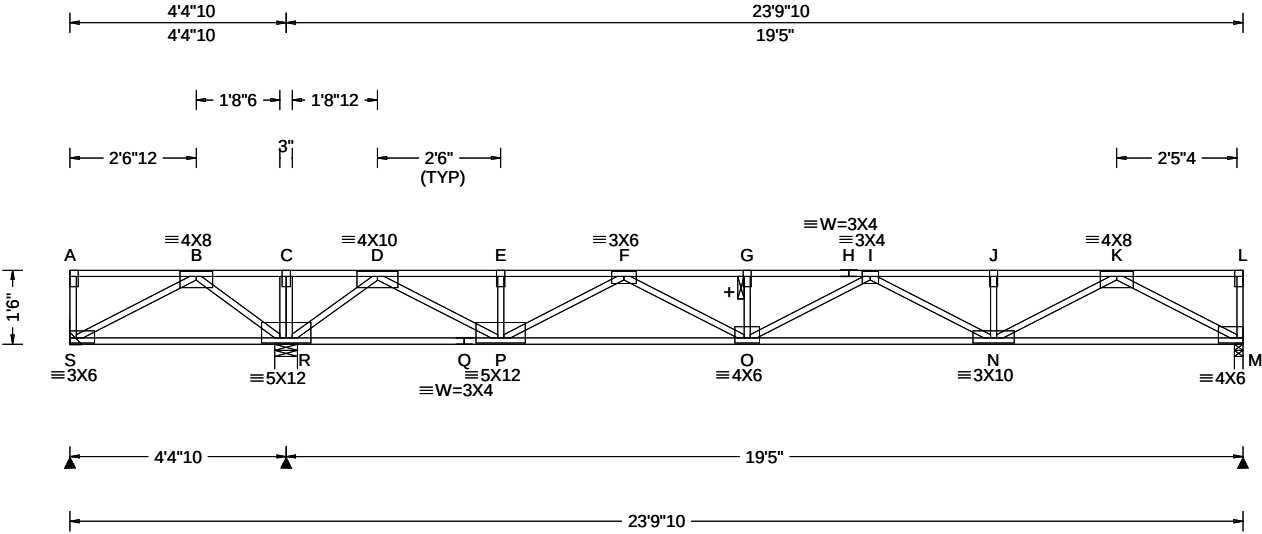


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Building 12

SEQN: 12920 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F18	Cust: R 9316 JRef:1XdX93160010 T16 / DrwNo: 076.22.1326.04593 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.197 G 999 480 VERT(CL): 0.371 G 628 360 HORZ(LL): 0.021 M - - HORZ(TL): 0.039 M - - Creep Factor: 2.0 Max TC CSI: 0.660 Max BC CSI: 0.796 Max Web CSI: 0.466 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S - /-458 /- /- /- /- R 1886 /- /- /- /- /- M 844 /- /- /- /- /- S Brg Wid = - Min Req = - R Brg Wid = 5.5 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings R & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Negative reaction(s) of -458# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.	Chords	Tens. Comp.		
S - R	0 -955	P - O	1987	0	
R - Q	0 -427	O - N	2580	0	
Q - P	0 -427	N - M	1352	0	
Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.	Webs	Tens. Comp.		
S - B	1084	F - O	631	0	
B - R	0 -1117	I - N	0	-411	
R - D	0 -1648	N - K	991	0	
D - P	1653	K - M	0	-1535	
P - F	0 -1085				



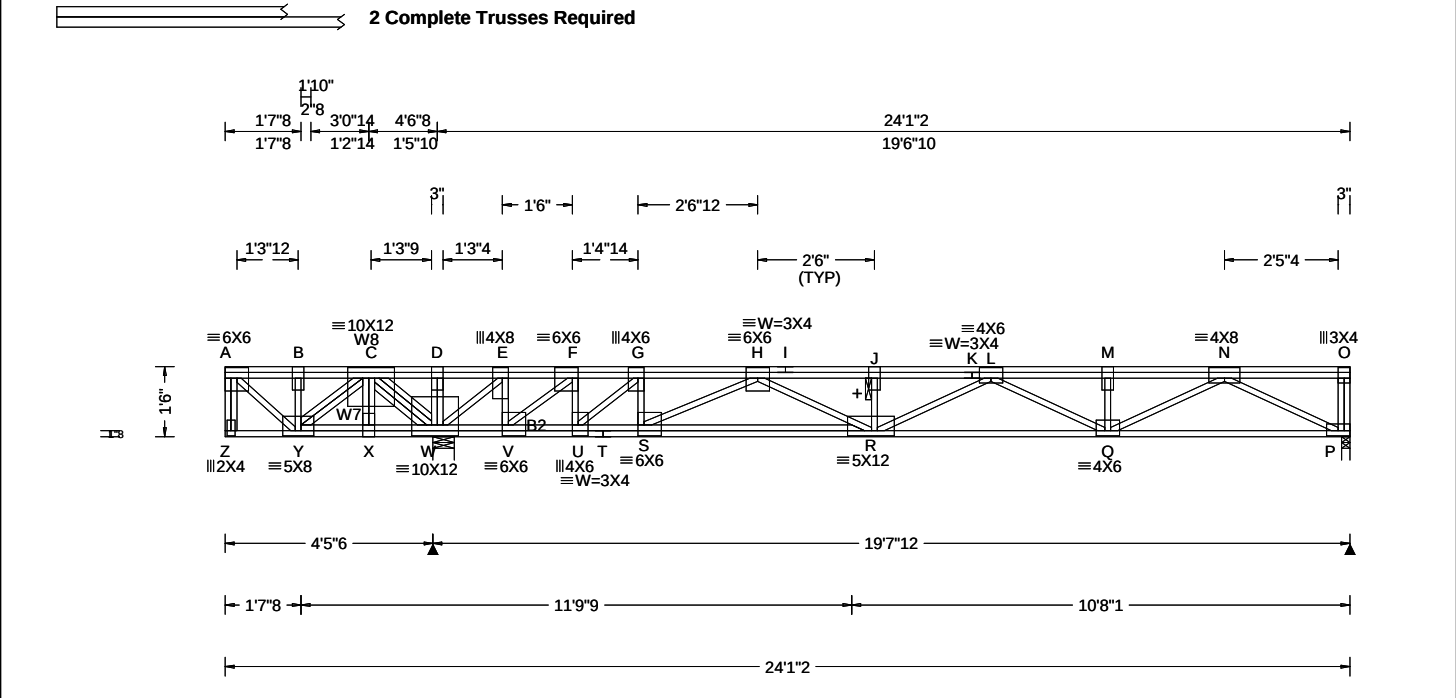
03/17/2022

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCEA: sbceacomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 12

SEQN: 12922 / FROM:	SY42 Qty: 2	Ply: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F18G	Cust: R 9316 JRef:1XdX93160010 T17 / DrwNo: 076.22.1326.05516 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.124 Z 435 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.263 Z 204 360		W 8317	-/-	-/-	-/-	-/-	-/-	-/-	
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): -0.027 A - -		P 962	-/-165	-/-	-/-	-/-	-/-	-/-	
Des Ld: 75.00		EXP: NA Kzt: NA				HORZ(TL): 0.058 A - -		W Brg Wid = 5.5 Min Req = 1.5 (Truss)							
NCBCLL: 0.00		Mean Height: NA ft				Creep Factor: 2.0		P Brg Wid = 2.1 Min Req = 1.5 (Truss)							
Soffit: 0.00		TCDL: NA psf		Building Code:		Max TC CSI: 0.885		Bearings W & P are a rigid surface.							
Load Duration: 1.00		BCDL: NA psf		IBC 2018		Max BC CSI: 0.247		Members not listed have forces less than 375#							
Spacing: 16.0 "		MWFRS Parallel Dist: NA		TPI Std: 2014		Max Web CSI: 0.249		Maximum Top Chord Forces Per Ply (lbs)							
		C&C Dist a: NA ft		Rep Fac: Varies by Ld Case				Chords		Tens.Comp.		Chords		Tens. Comp.	
		Loc. from endwall: NA		FT/RT:12(0)/10(0)				A - B		420 0		H - I		1554 -1705	
		I: NA GCpi: NA		Plate Type(s):				B - C		420 0		I - J		1554 -1705	
		Wind Duration: NA		WAVE				C - D		4753 0		J - K		1551 -1711	
								D - E		4749 -367		K - L		534 -1347	
								E - F		4209 -367		L - M		534 -1347	
								F - G		3615 -827		M - N		534 -1347	
								G - H		3087 -1193		N - O		534 -1347	
								H - I		2553 -1000		O - P		534 -1347	
								I - J		2025 -750		P - Q		534 -1347	
								J - K		1500 -500		Q - R		534 -1347	
								K - L		1000 -333		R - S		534 -1347	
								L - M		667 -222		S - T		534 -1347	
								M - N		500 -167		T - U		534 -1347	
								N - O		333 -111		U - V		534 -1347	
								O - P		167 -56		V - W		534 -1347	
								P - Q		111 -37		W - X		534 -1347	
								Q - R		74 -25		X - Y		534 -1347	
								R - S		50 -17		Y - Z		534 -1347	
								S - T		33 -11		Z - AA		534 -1347	
								T - U		22 -7		AA - AB		534 -1347	
								U - V		15 -5		AB - AC		534 -1347	
								V - W		10 -3		AC - AD		534 -1347	
								W - X		7 -2		AD - AE		534 -1347	
								X - Y		5 -2		AE - AF		534 -1347	
								Y - Z		3 -1		AF - AG		534 -1347	
								Z - AA		2 -0		AG - AH		534 -1347	
								AA - AB		1 -0		AH - AI		534 -1347	
								AB - AC		0 -0		AI - AJ		534 -1347	
								AC - AD		0 -0		AJ - AK		534 -1347	
								AD - AE		0 -0		AK - AL		534 -1347	
								AE - AF		0 -0		AL - AM		534 -1347	
								AF - AG		0 -0		AM - AN		534 -1347	
								AG - AH		0 -0		AN - AO		534 -1347	
								AH - AI		0 -0		AO - AP		534 -1347	
								AI - AJ		0 -0		AP - AQ		534 -1347	
								AJ - AK		0 -0		AQ - AR		534 -1347	
								AK - AL		0 -0		AR - AS		534 -1347	
								AL - AM		0 -0		AS - AT		534 -1347	
								AM - AN		0 -0		AT - AU		534 -1347	
								AN - AO		0 -0		AU - AV		534 -1347	
								AO - AP		0 -0		AV - AW		534 -1347	
								AP - AQ		0 -0		AW - AX		534 -1347	
								AQ - AR		0 -0		AX - AY		534 -1347	
								AR - AS		0 -0		AY - AZ		534 -1347	
								AS - AT		0 -0		AZ - BA		534 -1347	
								AT - AU		0 -0		BA - BB		534 -1347	
								AU - AV		0 -0		BB - BC		534 -1347	
								AV - AW		0 -0		BC - BD		534 -1347	
								AW - AX		0 -0		BD - BE		534 -1347	
								AX - AY		0 -0		BE - BF		534 -1347	
								AY - AZ		0 -0		BF - BG		534 -1347	
								AZ - BA		0 -0		BG - BH		534 -1347	
								BA - BB		0 -0		BH - BI		534 -1347	
								BB - BC		0 -0		BI - BJ		534 -1347	
								BC - BD		0 -0		BJ - BK		534 -1347	
								BD - BE		0 -0		BK - BL		534 -1347	
								BE - BF		0 -0		BL - BM		534 -1347	
								BF - BG		0 -0		BM - BN		534 -1347	
								BG - BH		0 -0		BN - BO		534 -1347	
								BH - BI		0 -0		BO - BP		534 -1347	
								BI - BJ		0 -0		BP - BQ		534 -1347	
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								BS - BT		0 -0		BZ - CA		534 -1347	
								BT - BU		0 -0		CA - CB		534 -1347	
								BU - BV		0 -0		CB - CC		534 -1347	
								BV - BW		0 -0		CC - CD		534 -1347	
								BW - BX		0 -0		CD - CE		534 -1347	
								BX - BY		0 -0		CE - CF		534 -1347	
								BY - BZ		0 -0		CF - CG		534 -1347	
								BZ - CA		0 -0		CG - CH		534 -1347	
								CA - CB		0 -0		CH - CI		534 -1347	
								CB - CC		0 -0		CI - CJ		534 -1347	
								CC - CD		0 -0		CJ - CK		534 -1347	
								CD - CE		0 -0		CK - CL		534 -1347	
								CE - CF		0 -0		CL - CM		534 -1347	
								CF - CG		0 -0		CM - CN		534 -1347	
								CG - CH		0 -0		CN - CO		534 -1347	
								CH - CI		0 -0		CO - CP		534 -1347	
								CI - CJ		0 -0		CP - CQ		534 -1347	
								CJ - CK		0 -0		CQ - CR		534 -1347	
								CK - CL		0 -0		CR - CS		534 -1347	
								CL - CM		0 -0		CS - CT		534 -1347	
								CM - CN		0 -0		CT - CU		534 -1347	
								CN - CO		0 -0		CU - CV		534 -1347	
								CO - CP		0 -0		CV - CW		534 -1347	
								CP - CQ		0 -0		CW - CX		534 -1347	
								CQ - CR		0 -0		CX - CY		534 -1347	
								CR - CS		0 -0		CY - CZ		534 -1347	
								CS - CT		0 -0		CZ - DA		534 -1347	
								CT - CU		0 -0		DA - DB		534 -1347	
								CU - CV		0 -0		DB - DC		534 -1347	
								CV - CW		0 -0		DC - DD		534 -1347	
								CW - CX		0 -0		DD - DE		534 -1347	
								CX - CY		0 -0		DE - DF		534 -1347	
								CY - CZ		0 -0		DF - DG		534 -1347	
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								DF - DG		0 -0		DM - DN		534 -1347	
								DG - DH		0 -0		DN - DO		534 -1347	
								DH - DI		0 -0		DO - DP		534 -1347	
								DI - DJ		0 -0		DP - DQ		534 -1347	
								DJ - DK		0 -0		DQ - DR		534 -1347	
								DK - DL		0 -0		DR - DS		534 -1347	
								DL - DM		0 -0		DS - DT		534 -1347	
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								DO - DP		0 -0		DV - DW		534 -1347	
								DP - DQ		0 -0		DW - DX		534 -1347	
								DQ - DR		0 -0		DX - DY		534 -1347	
								DR - DS		0 -0		DY - DZ		534 -1347	
								DS - DT		0 -0		DZ - EA		534 -1347	
								DT - DU		0 -0		EA - EB		534 -1347	
								DU - DV		0 -0		EB - EC		534 -1347	
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								DZ - EA		0 -0		EG - EH		534 -1347	
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								EC - ED		0 -0		EJ - EK		534 -1347	
								ED - EE		0 -0		EK - EL		534 -1347	
								EE - EF		0 -0		EL - EM		534 -1347	
								EF - EG		0 -0		EM - EN		534 -1347	
								EG - EH		0 -0		EN - EO		534 -1347	
								EH - EI		0 -0		EO - EP		534 -1347	

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads
----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes
All plates are 3X6 except as noted.

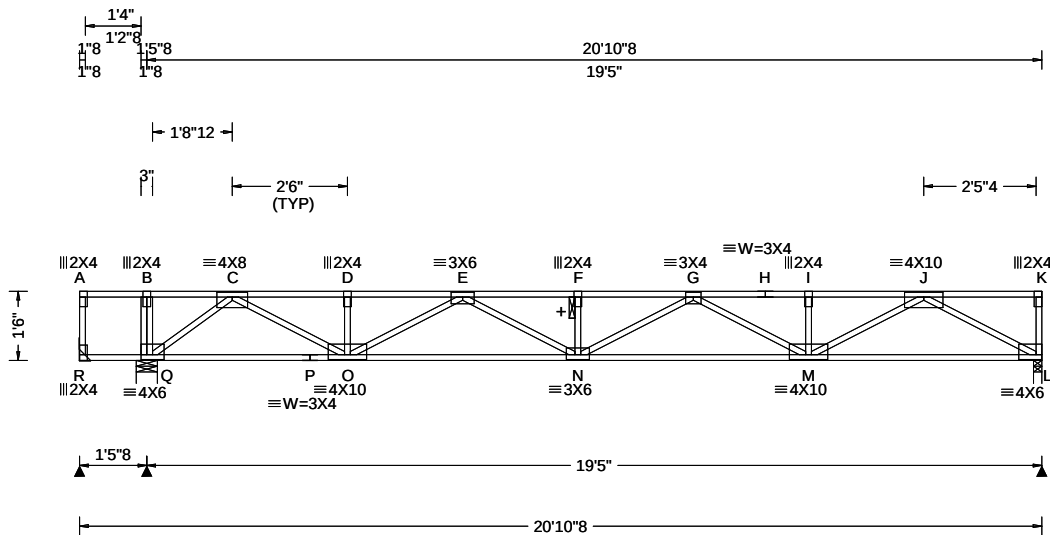
Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



03/17/2022			
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For more information see these web sites: Alpine: alpineitw.com ; TPI: tpinst.org ; SBCA: sbcacomponents.com ; ICC: iccsafe.org ; AWC: awc.org			
		 514 Earth City Expressway Suite 242 Earth City, Missouri 63045	

Building 12

SEQN: 9754 /	SY42	Ply: 1	Job Number: JB-220695	Cust: R 9316 JRef: 1XdX93160010 T34 /
FROM:		Qty: 24	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 076.22.1326.18483
			Truss Label: F19	/ NDW 03/17/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/defl L/#			Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.246 F 943 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.462 F 502 360			R	27	/-42	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): 0.038 L - -			Q	1134	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA					HORZ(TL): 0.072 L - -			L	962	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft		Building Code:			Creep Factor: 2.0			R	Brg Wid = -		Min Req = -			
Soffit: 0.00		TCDL: NA psf		IBC 2018			Max TC CSI: 0.485			Q	Brg Wid = 5.5		Min Req = 1.5 (Truss)			
Load Duration: 1.00		BCDL: NA psf		TPI Std: 2014			Max BC CSI: 0.960			L	Brg Wid = 2.1		Min Req = 1.5 (Truss)			
Spacing: 16.0 "		MWFRS Parallel Dist: NA		Rep Fac: Yes			Max Web CSI: 0.397			Bearings Q & L are a rigid surface.						
		C&C Dist a: NA ft		FT/RT:12(0)/10(0)						Members not listed have forces less than 375#						
		Loc. from endwall: NA		Plate Type(s):						Maximum Top Chord Forces Per Ply (lbs)						
		l: NA GCpi: NA		WAVE			VIEW Ver: 21.02.00.1005.17			Chords Tens.Comp. Chords Tens. Comp.						
		Wind Duration: NA								C D 0 2320 C H 0 2651						

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

C - D	0 - 2320	G - H	0 - 2651
D - E	0 - 2320	H - I	0 - 2651
E - F	0 - 3393	I - J	0 - 2651
F - G	0 - 3393		

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1089	0	N - M	3224	0
P - O	1089	0	M - L	1570	0
O - N	3055	0			

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.	Comp.	Webs	Tens. Comp.
Q - C	0	-1383	G - M	0 -654
C - O	1407	0	M - J	1233 0
O - E	0	-839	J - L	0 -1782
E - N	387	0		



03/17/2022

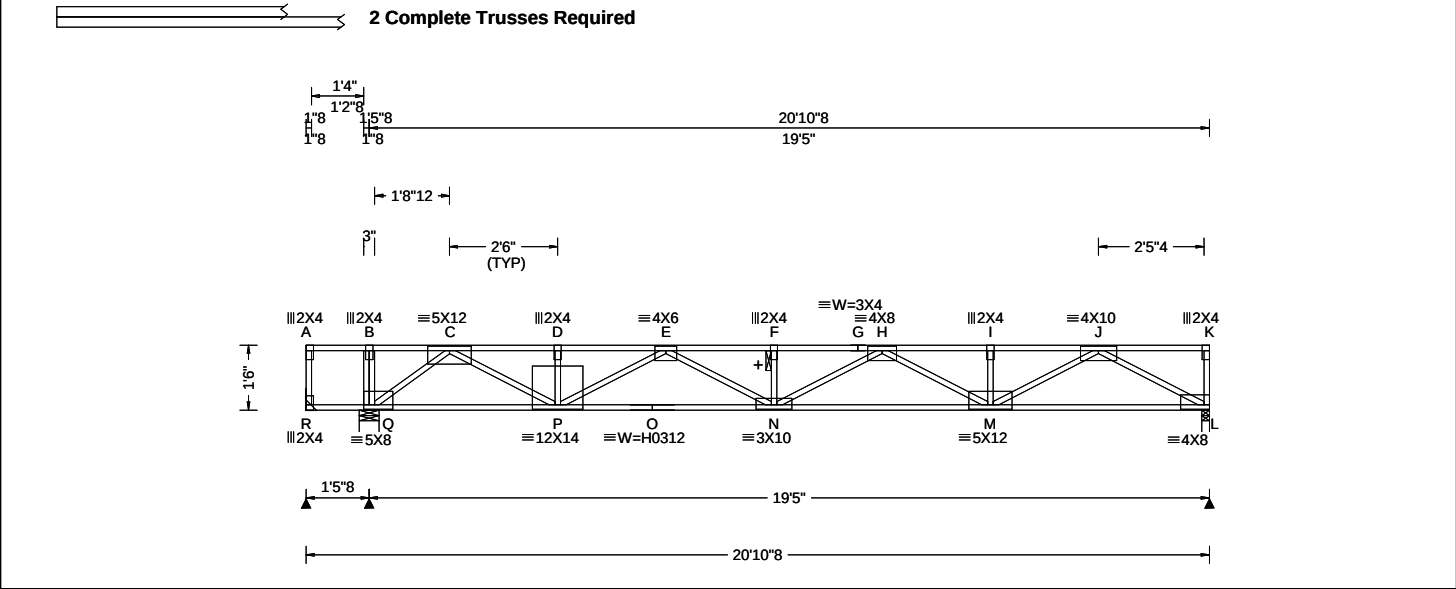
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBGA: sbgacomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 9756 / FROM:	SY42 Qty: 4	Ply: 2 Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F19G	Cust: R 9316 JRef:1XdX93160010 T8 / DrwNo: 076.22.1326.18597 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.290 F 799 480 VERT(CL): 0.545 F 426 360 HORZ(LL): 0.041 C - - HORZ(TL): 0.076 C - - Creep Factor: 2.0 Max TC CSI: 0.583 Max BC CSI: 0.585 Max Web CSI: 0.629 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL R 24 /-58 /- /- /- /- Q 3942 /- /- /- /- /- L 1997 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 DF-L 2400f-2.0E; Bot chord: 4x2 DF-L 2400f-2.0E; Webs: 4x2 SPF #1/#2;	C - D 0 - 3789 G - H 0 - 5138 D - E 0 - 3789 H - I 0 - 3219 E - F 0 - 5138 I - J 0 - 3219 F - G 0 - 5138
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Special Loads ----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00) TC: From 87 plf at 0.00 to 87 plf at 20.88 BC: From 13 plf at 0.00 to 13 plf at 20.88 TC: 443 lb Conc. Load at 0.94 TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27 7.60, 8.94, 10.27, 11.60, 12.94	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. Q - P 1835 0 N - M 4478 0 P - O 4877 0 M - L 1748 0 O - N 4877 0
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Deflection Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCMB1014 for camber recommendations.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. B - Q 0 - 465 F - N 0 - 473 Q - C 0 - 2340 N - H 753 0 C - P 2229 0 H - M 0 - 1437 D - P 0 - 467 M - J 1679 0 P - E 0 - 1242 J - L 0 - 1984
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Additional Notes See DWG CNSY42PL0118 for connection details of 2 ply trusses. + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	
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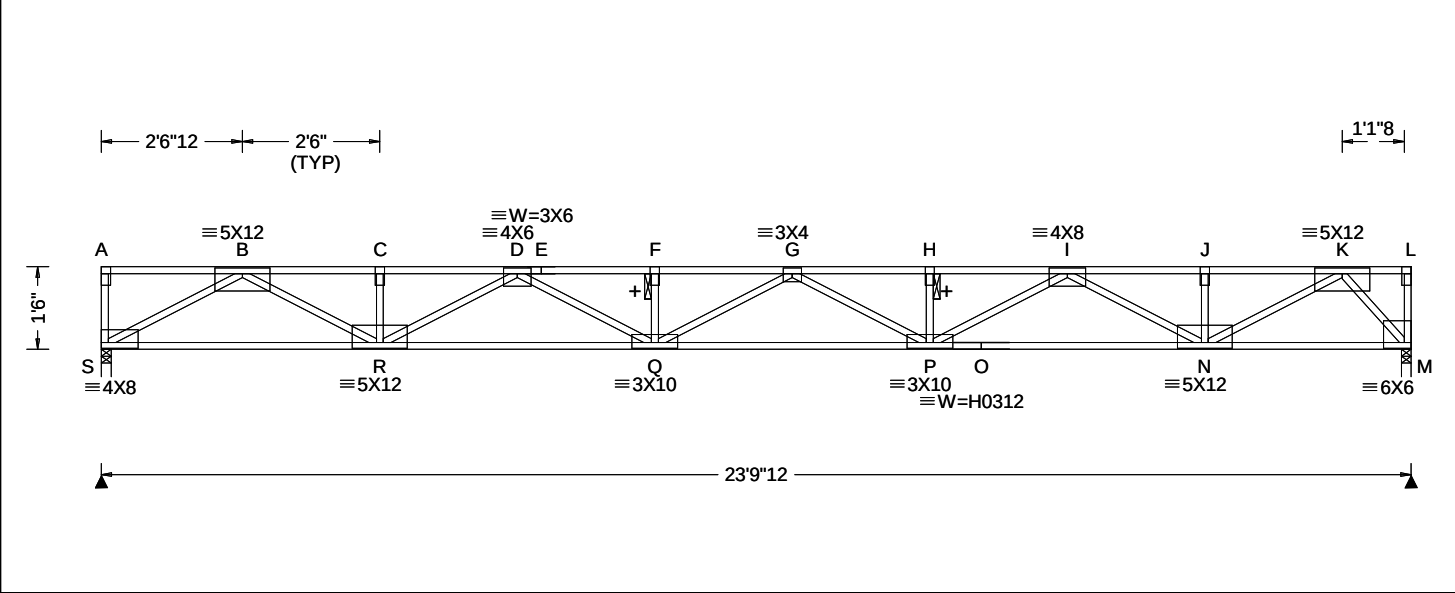


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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	 514 Earth City Expressway Suite 242 Earth City, Missouri 63045
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Building 12

SEQN: 12924 / FROM:	SY42 Qty: 32	Ply: 1 Qty: 32	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F21	Cust: R 9316 JRef:1XdX93160010 T19 / DrwNo: 076.22.1326.04531 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)	
TCLL:	40.00	Wind Std:	NA	Pg: NA	Ct: NA	PP Deflection in	loc L/def L/#	Gravity	
TCCL:	25.00	Speed:	NA mph	Pf: NA	Ce: NA	VERT(LL):	0.419 G 682 480	Loc	R+ / R-
BCCL:	0.00	Enclosure:	NA	Lu: NA	Cs: NA	VERT(CL):	0.785 G 364 360	Non-Gravity	
BCDL:	10.00	Category:	NA	Snow Duration:	NA	HORZ(LL):	0.056 M - -	/ Rh / Rw / U / RL	
Des Ld:	75.00	EXP: NA	Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS		HORZ(TL):	0.104 M - -	S	1191 /- /- /- /- /-
NCBCLL:	0.00	Mean Height:	NA ft			Creep Factor:	2.0	M	1191 /- /- /- /- /-
Soffit:	0.00	TCCL:	NA psf			Max TC CSI:	0.442	S Brg Wid = 2.1 Min Req = 1.5 (Truss)	
Load Duration:	1.00	BCDL:	NA psf			Max BC CSI:	0.664	M Brg Wid = 2.1 Min Req = 1.5 (Truss)	
Spacing:	16.0 "	C&C Dist a:	NA ft	VIEW Ver: 21.02.00.1005.17		Max Web CSI:	0.556	Bearings S & M are a rigid surface.	
		Loc. from endwall:	NA					Members not listed have forces less than 375#	
		I: NA	GCpi: NA					Maximum Top Chord Forces Per Ply (lbs)	
		Wind Duration:	NA					Chords Tens.Comp. Chords Tens. Comp.	
								B - C	0 - 3491 G - H 0 - 4826
								C - D	0 - 3491 H - I 0 - 4826
								D - E	0 - 5062 I - J 0 - 2773
								E - F	0 - 5062 J - K 0 - 2773
								F - G	0 - 5062

Lumber Top chord: 4x2 SPF 2100f-1.8E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;		Plating Notes All plates are 2X4 except as noted.		Deflection Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCMB1014 for camber recommendations.		Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.	
Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.				Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp.			
						S - R	1995 0 P - O 4000 0
						R - Q	4479 0 O - N 4000 0
						Q - P	5145 0 N - M 1047 0
						S - B	0 - 2264 P - I 942 0
						B - R	1707 0 I - N 0 - 1401
						R - D	0 - 1127 N - K 1969 0
						D - Q	665 0 K - M 0 - 1557

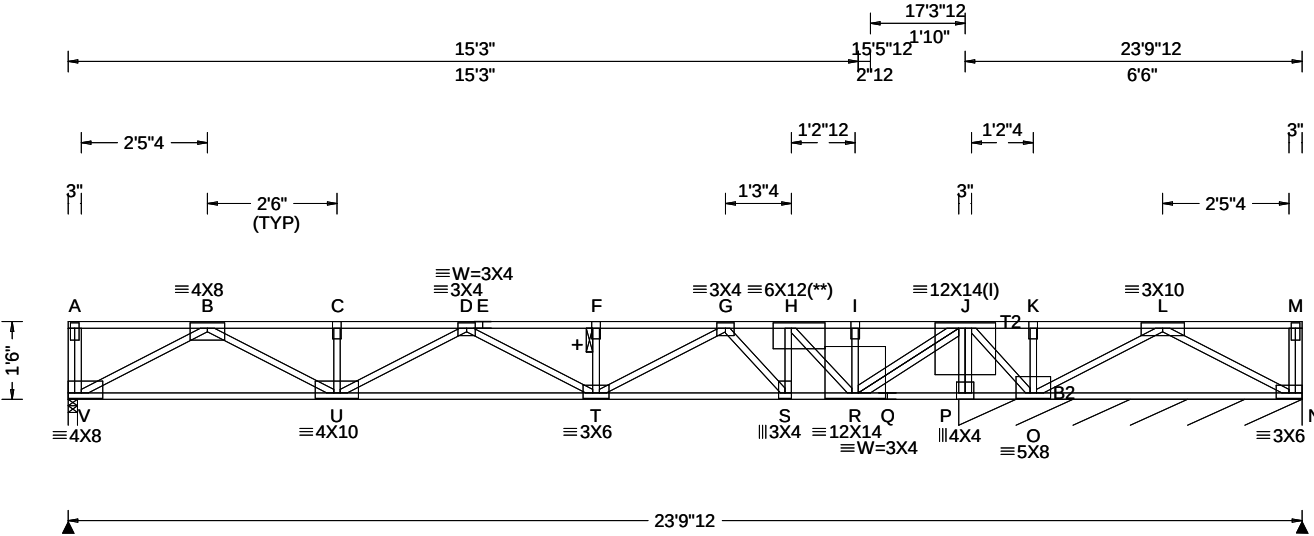


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Building 12

SEQN: 12926 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F22	Cust: R 9316 JRef:1XdX93160010 T2 / DrwNo: 076.22.1326.05671 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.179 F 999 480 VERT(CL): 0.335 F 613 360 HORZ(LL): 0.026 B - - HORZ(TL): 0.049 B - - Creep Factor: 2.0 Max TC CSI: 0.504 Max BC CSI: 0.472 Max Web CSI: 0.548 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL V 961 -/-/-/-/-/- N* 441 -/-/-/-/-/- N -/246 V Brg Wid = 2.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2565 G - H 0 -2521 C - D 0 -2565 H - I 0 -698 D - E 0 -3256 I - J 0 -698 E - F 0 -3256 J - K 1825 0 F - G 0 -3256 K - L 1825 0

Lumber
Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;
Special Loads
----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.81
BC: From 13 plf at 0.00 to 13 plf at 23.81
TC: 1500 lb Conc. Load at 13.90

Plating Notes
All plates are 2X4 except as noted.
(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.

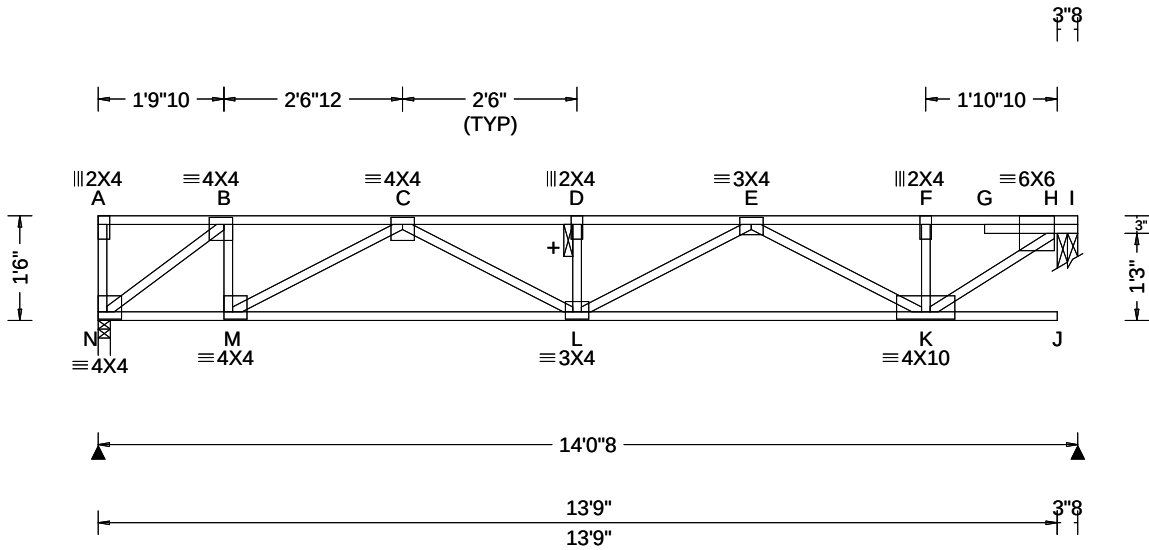


03/17/2022

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Building 12

SEQN: 12928 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F23	Cust: R 9316 JRef:1XdX93160010 T25 / DrwNo: 076.22.1326.04863 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.092 D 999 480 VERT(CL): 0.172 D 970 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.613 Max BC CSI: 0.522 Max Web CSI: 0.325 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 694 /- /- /- /- /- H 707 /- /- /- /- /- N Brg Wid = 2.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -869 E - F 0 -931 C - D 0 -1793 F - H 0 -930 D - E 0 -1793

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	831	L - K	1548
M - L	1525		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1045	E - K	0 -704
B - M	425	K - H	1152
M - C	0 -752		0



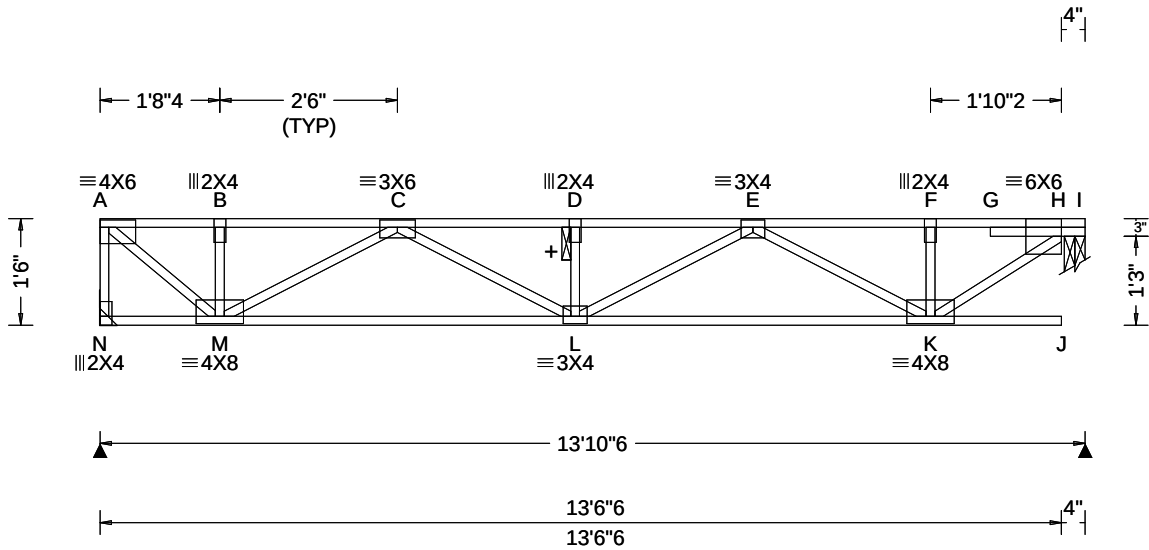
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Suite 242
Earth City, Missouri 63045

Building 12

SEQN: 12930 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F24	Cust: R 9316 JRef:1XdX93160010 T3 / DrwNo: 076.22.1326.04594 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.090 D 999 480 VERT(CL): 0.167 D 982 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.604 Max BC CSI: 0.513 Max Web CSI: 0.320 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 685 /- /- /- /- /- H 697 /- /- /- /- /- N Brg Wid = - Min Req = - H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -776 D - E 0 -1749 B - C 0 -776 E - F 0 -917 C - D 0 -1749 F - H 0 -916

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1463 0	L - K	1518 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -684	E - K	0 -687
A - M	1001 0	K - H	1134 0
M - C	0 -784		



03/17/2022

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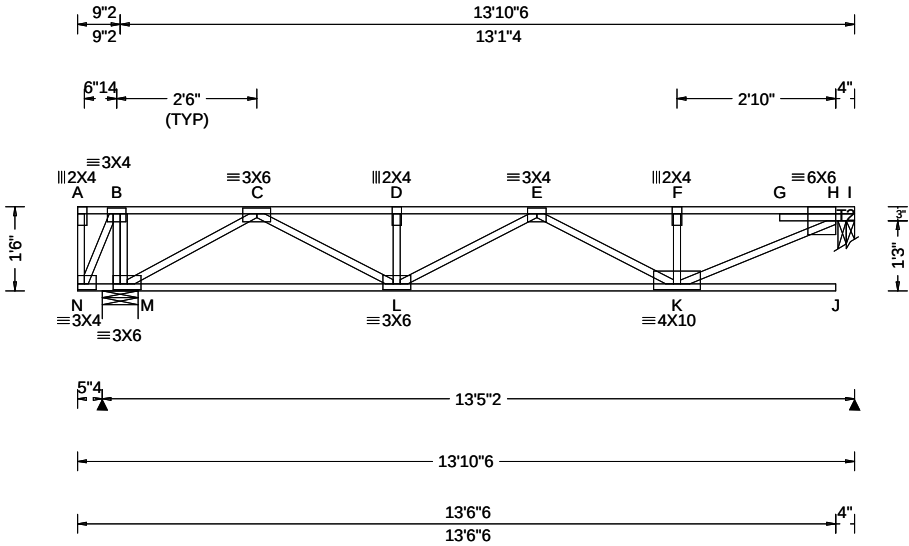
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Building 12

SEQN: 12932 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F25	Cust: R 9316 JRef:1XdX93160010 T11 / DrwNo: 076.22.1326.05143 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 J 784 480 VERT(CL): 0.316 J 488 360 HORZ(LL): 0.013 A - - HORZ(TL): 0.024 A - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.630 Max Web CSI: 0.367 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL M 729 /- /- /- /- /- H 659 /- /- /- /- /- M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 0 -1447 E - F 0 -1177 D - E 0 -1447 F - H 0 -1178

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	912	L - K	1482
	0		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
M - C	0 -1015	K - H	1301
C - L	614		0



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****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

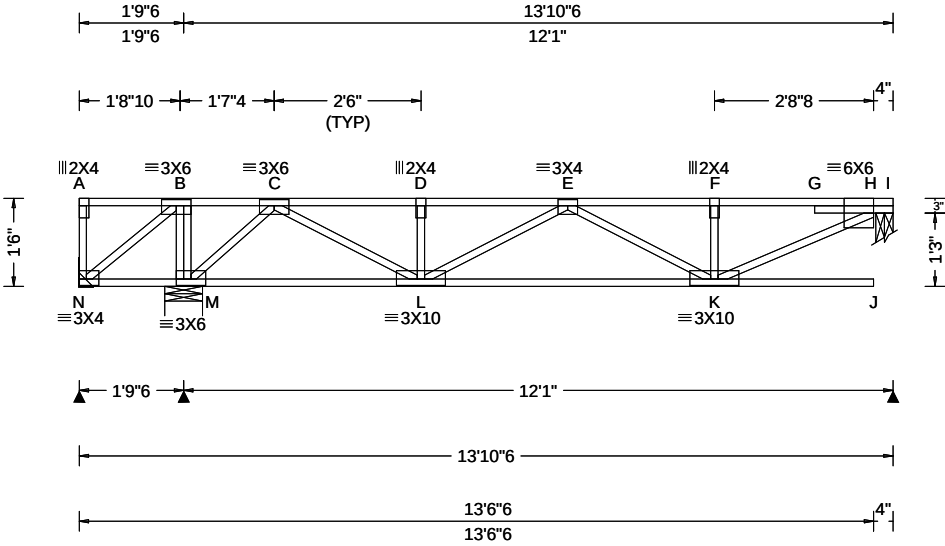
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCEA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCEA: sbacompoments.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 12934 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F26	Cust: R 9316 JRef:1XdX93160010 T5 / DrwNo: 076.22.1326.04608 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.158 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.284 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-358 /- /- /- /- M 1154 /- /- /- /- /- H 547 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 SPF #1/#2; Bot chord: 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2;	Deflection Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.	Additional Notes See detail STRBRIBR1014 for bracing and bridging recommendations. Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less. Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. N - M 0 -465 L - K 1035 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 596 0 C - L 815 0 B - M 0 -533 K - H 1005 0 M - C 0 -843
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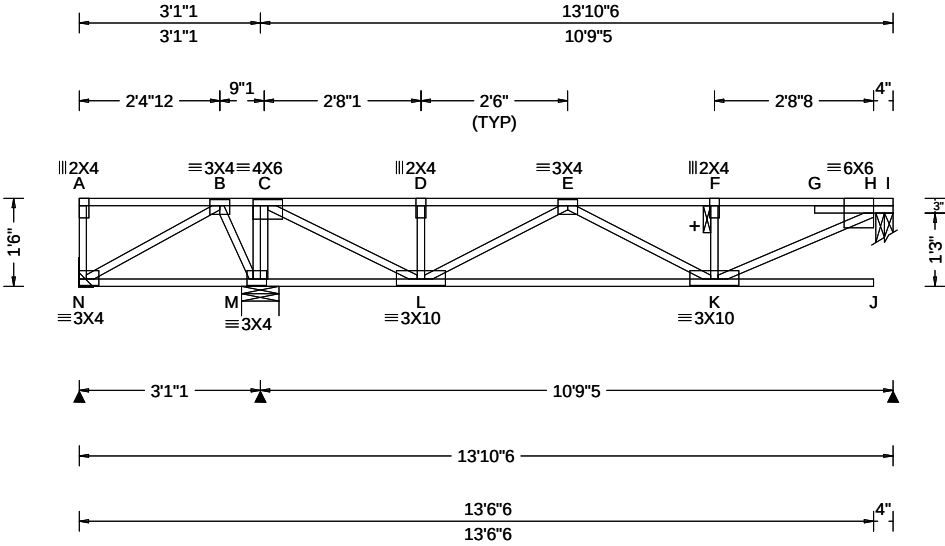


03/17/2022

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Building 12

SEQN: 12936 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F27	Cust: R 9316 JRef:1XdX93160010 T9 / DrwNo: 076.22.1326.04597 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 869 480 VERT(CL): 0.233 J 549 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.748 Max BC CSI: 0.436 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 44 /-139 /- /- /- /- M 963 /- /- /- /- /- H 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 427 0 E - F 0 -782 C - D 0 -495 F - H 0 -784 D - E 0 -495

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
L - K	815	0		
Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens. Comp.	
M - C	0 -633	K - H	872	0
C - L	964	0		

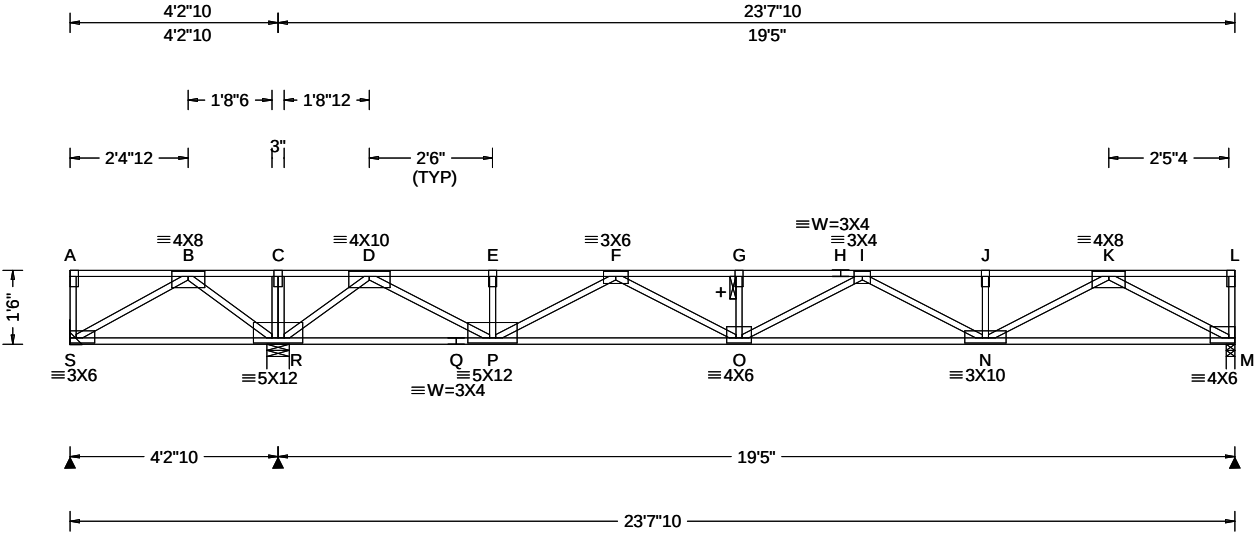


03/17/2022

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Building 12

SEQN: 12938 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F28	Cust: R 9316 JRef:1XdX93160010 T10 / DrwNo: 076.22.1326.04643 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/def L/#			Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.196 G 999 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.369 G 630 360			S	-	/-490	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): 0.021 M - -			R	1906	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code:			HORZ(TL): 0.039 M - -			M	843	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft					Creep Factor: 2.0			S Brg Wid = - Min Req = -						
Soffit: 0.00		TCDL: NA psf		IBC 2018			Max TC CSI: 0.660			R	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
Load Duration: 1.00		BCDL: NA psf		TPI Std: 2014			Max BC CSI: 0.795			M	Brg Wid = 2.1 Min Req = 1.5 (Truss)					
Spacing: 16.0 "		MWFRS Parallel Dist: NA		Rep Fac: Yes			Max Web CSI: 0.467			Bearings R & M are a rigid surface.						
		C&C Dist a: NA ft		FT/RT:12(0)/10(0)						Members not listed have forces less than 375#						
		Loc. from endwall: NA		Plate Type(s):						Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA		WAVE			VIEW Ver: 21.02.00.1005.17			Chords Tens.Comp. Chords Tens. Comp.						
		Wind Duration: NA														

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Negative reaction(s) of -490# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
Truss must be installed as shown with top chord up.

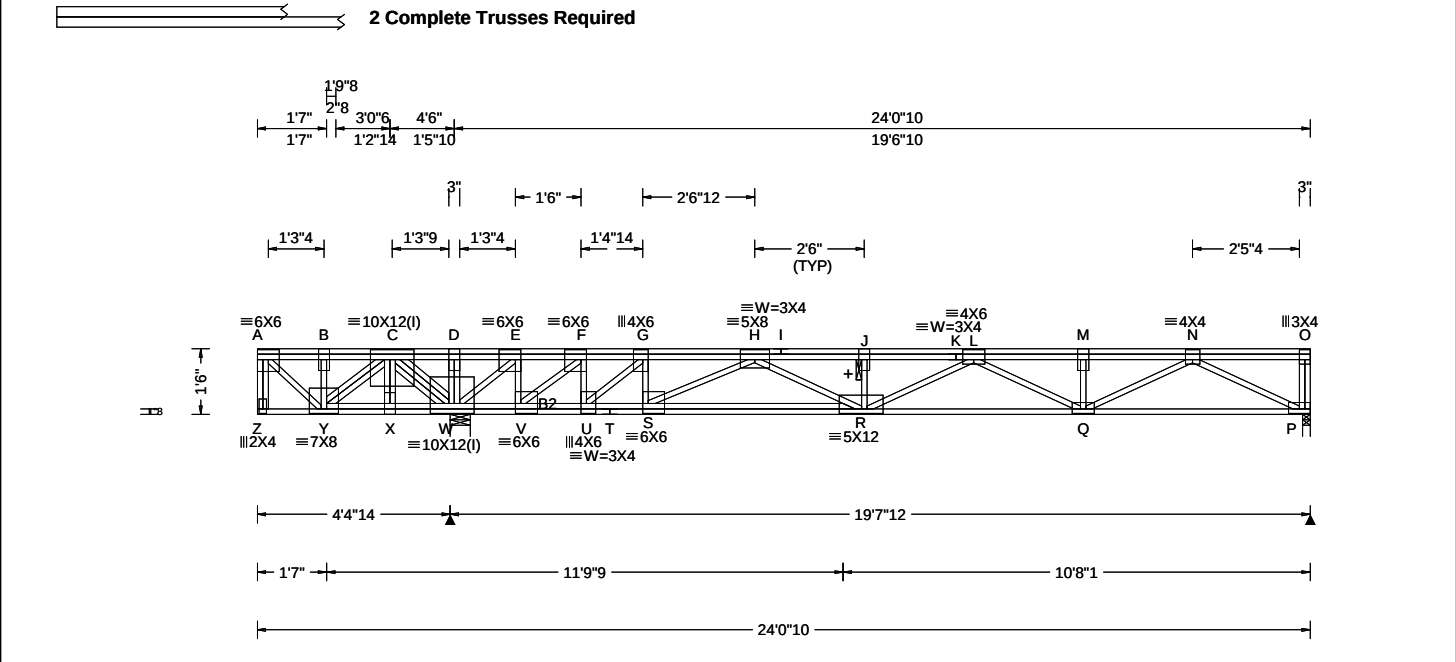


03/17/2022

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Building 12

SEQN: 12940 /	SY42	Ply: 2	Job Number: JB-220695	Cust: R 9316 JRef: 1XdX93160010 T12 /
FROM:	Qty: 2		Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 076.22.1326.04573
			Truss Label: F28G	/ NDW 03/17/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.120 A 443 480 VERT(CL): 0.268 Z 198 360 HORZ(LL): -0.025 A - - HORZ(TL): 0.057 A - - Creep Factor: 2.0 Max TC CSI: 0.433 Max BC CSI: 0.260 Max Web CSI: 0.271 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL W 8750 /- /- /- /- /- P 618 /-243 /- /- /- /- W Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings W & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 597 0 H - I 1855 -383 B - C 597 0 I - J 1855 -383 C - D 5342 0 J - K 1853 -389 D - E 5337 0 K - L 1853 -389 E - F 4767 0 L - M 685 -689 F - G 4126 0 M - N 685 -689 G - H 3551 0

Lumber Top chord: 4x2 DF-L 2400f-2.0E; Bot chord: 4x2 DF-L 2400f-2.0E; B2 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2;	Special Loads ----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00) TC: From 87 plf at 0.00 to 87 plf at 24.05 BC: From 13 plf at 0.00 to 13 plf at 24.05 TC: 1129 lb Conc. Load at 0.12 TC: 5500 lb Conc. Load at 3.03
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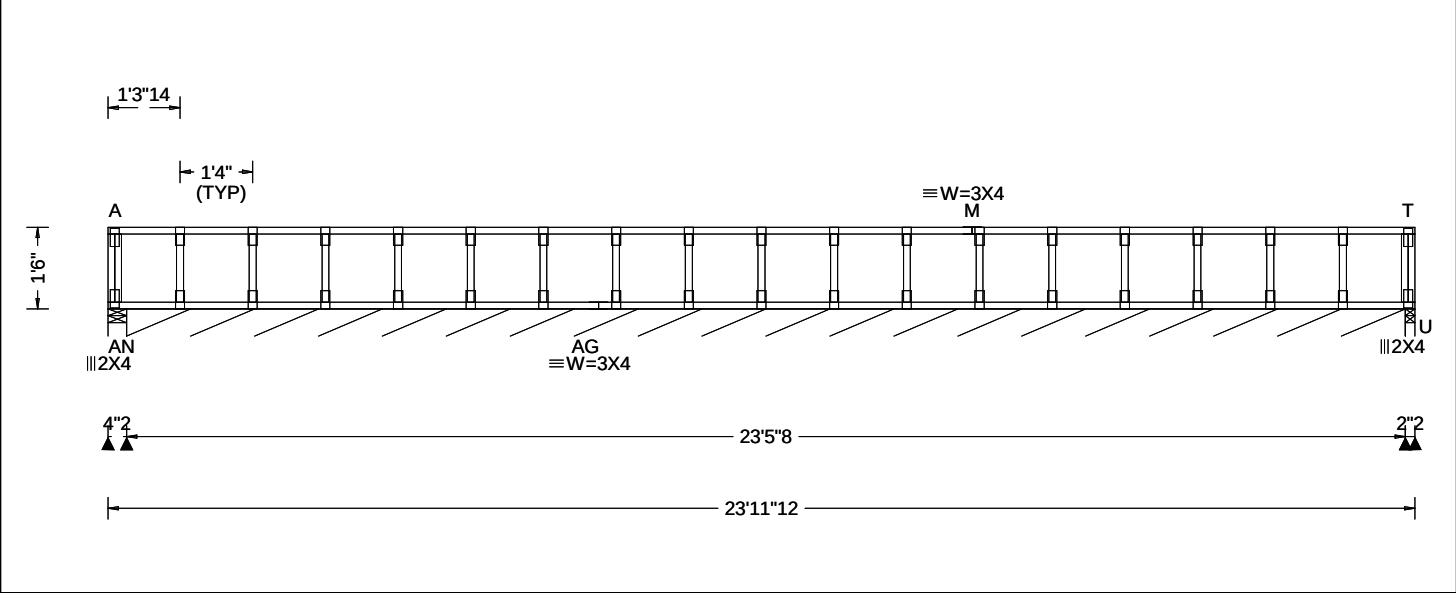
Plating Notes All plates are 3X6 except as noted. (I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. Y - X 0 -1645 T - S 0 -3597 X - W 0 -1635 S - R 0 -2646 W - V 0 -4815 R - Q 647 -1215 V - U 0 -4178 Q - P 456 -296 U - T 0 -3597
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Additional Notes See DWG CNSY42PL0118 for connection details of 2 ply trusses. + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. Truss must be installed as shown with top chord up.		Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. A - Y 0 -789 G - S 577 0 Y - C 1366 0 S - H 0 -1230 C - W 0 -5021 H - R 961 0 W - E 0 -1030 R - L 0 -716 E - V 677 0 L - Q 599 0 V - F 0 -1093 Q - N 264 -439 F - U 694 0 N - P 330 -495 U - G 0 -980
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Building 12

SEQN: 12942 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L11	Cust: R 9316 JRef:1XdX93160010 T29 / DrwNo: 076.22.1326.05011 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.001 T 999 360 HORZ(LL): -0.003 B - - HORZ(TL): 0.005 B - - Creep Factor: 2.0 Max TC CSI: 0.060 Max BC CSI: 0.013 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity AN 68 -/-/-/-/- AN*97 -/-/-/-/- U 64 -/-/-/-/- AN Brg Wid = 4.1 Min Req = 1.5 (Truss) AN Brg Wid = 281 Min Req = - U Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AN, AN, & U are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



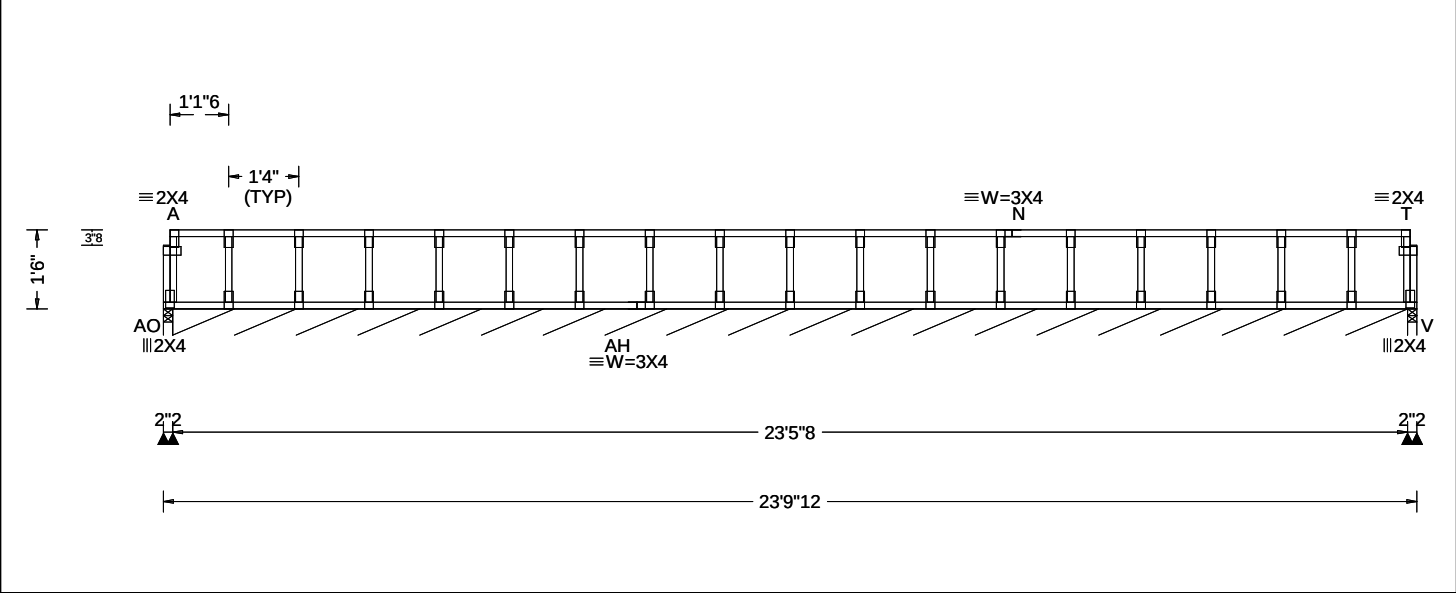
03/17/2022

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Building 12

SEQN: 12944 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220695 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L21	Cust: R 9316 JRef:1XdX93160010 T30 / DrwNo: 076.22.1326.05433 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.000 T 999 360 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.009 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL AO 48 -/-/-/-/- AO*97 -/-/-/-/- V 48 -/-/-/-/- AO Brg Wid = 2.1 Min Req = 1.5 (Truss) AO Brg Wid = 281 Min Req = - V Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AO, AO, & V are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.
Provide for complete drainage of roof.
Truss must be installed as shown with top chord up.



03/17/2022

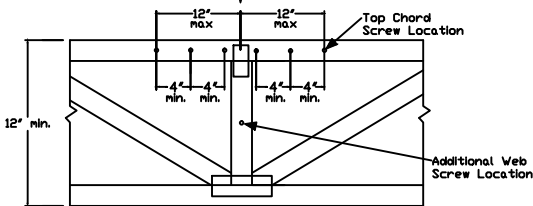
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

Max. Concentrated Load per Chart Below



Refer to Alpine sealed drawing for individual truss design.

Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

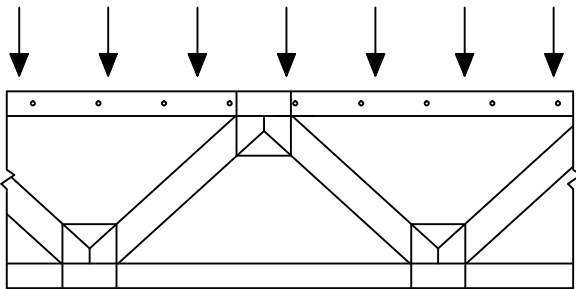
If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Max. Uniform Load per Chart Below



For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200

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TC LL	PSF	REF	SY42 Connection
TC DL	PSF	DATE	01/19/2018
BC DL	PSF	DRWG	CNSY42PL0118
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			



Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



ALPINE
A DIVISION OF ITW COMPANY

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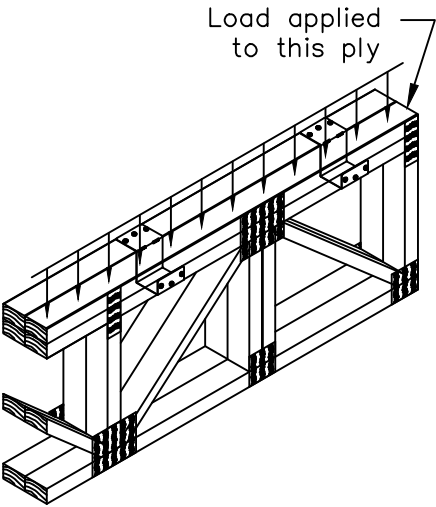
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ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL

FOR DOWNWARD LOADS ONLY

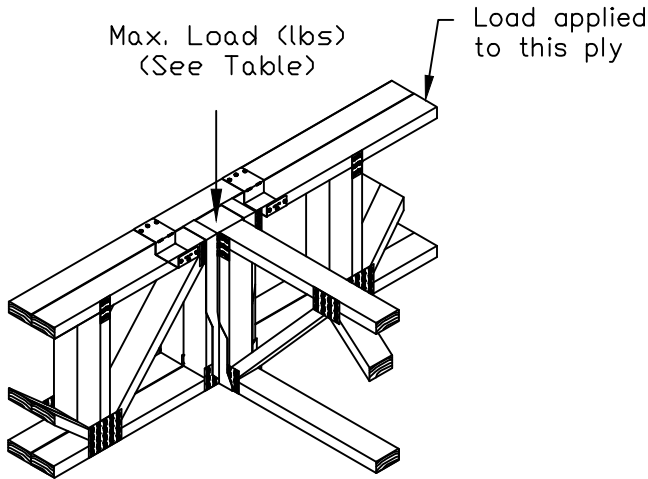
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application

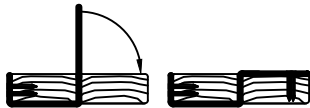


Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

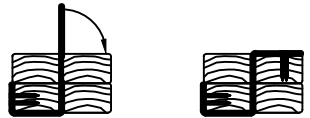
Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.
2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.

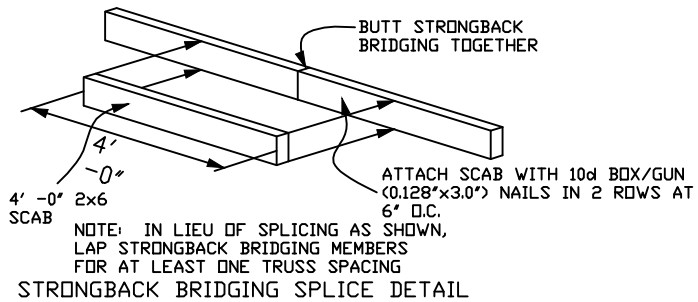


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DUR. FAC. ALL

REF SY42 Connection
DATE 10/01/14
DRWG LSCSYX2A1014

STRONGBACK BRIDGING RECOMMENDATIONS

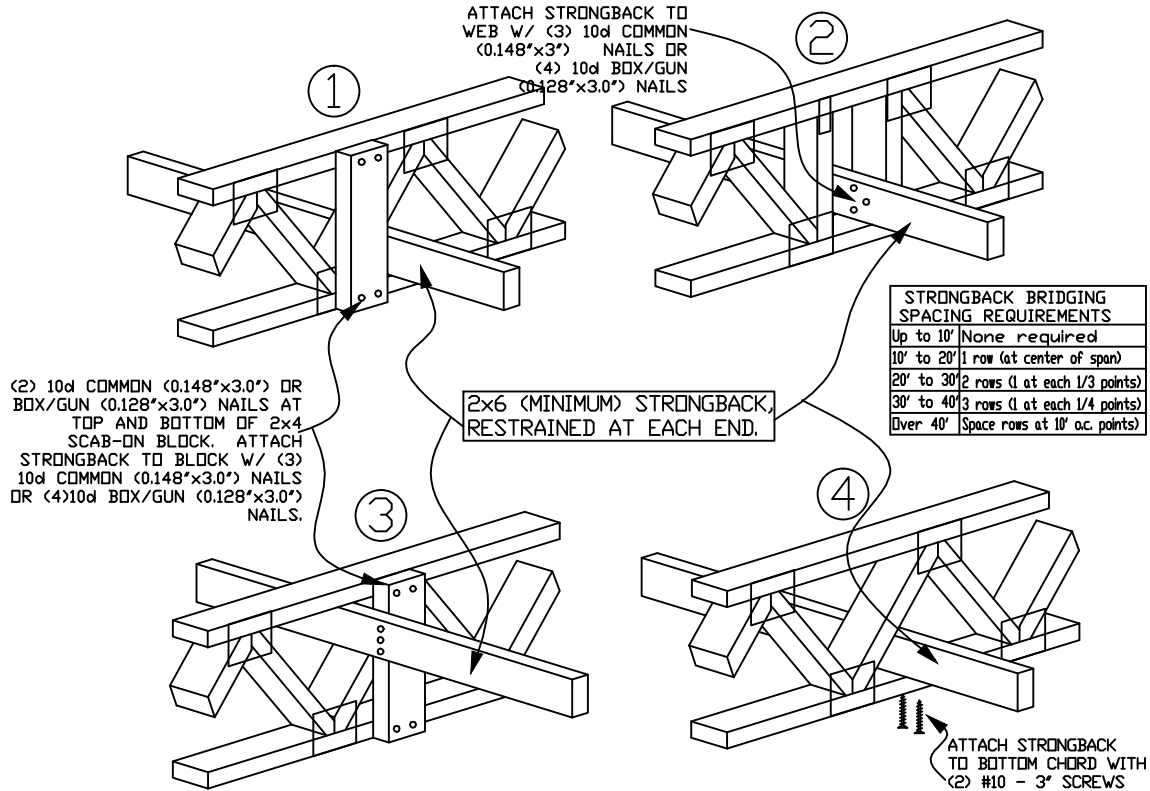


- ▶ All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- ▶ All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- ▶ The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- ▶ The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES



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TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			



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Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 12 Truss	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

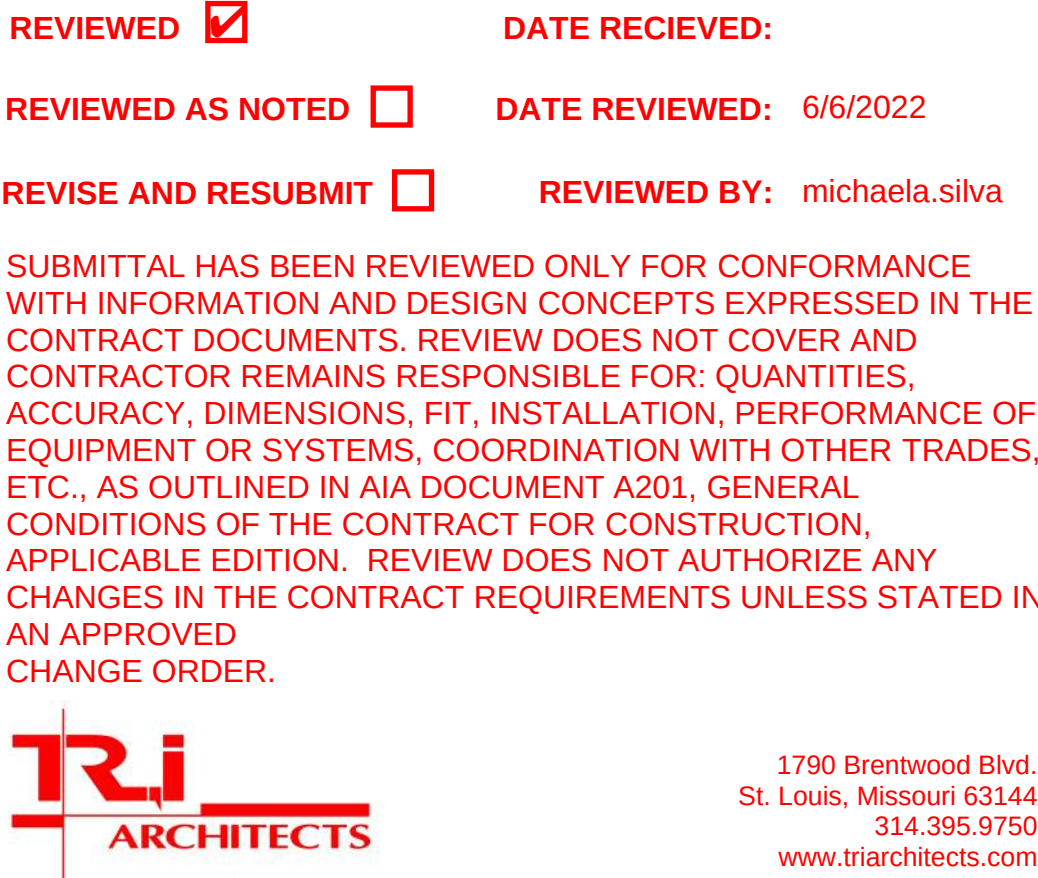
BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

DO NOT Erect Backwards/UpSide Down or Cut, Alter, Installed Trusses



1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

REVIEWED ☒ **DATE REVIEWED:**
REVIEWED AS NOTED ☐ **DATE REVIEWED:** 6/6/2022
REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

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

SHOP DRAWING REVIEW	
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS	
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS	
☐	APPROVED
☐	FURNISH AS CORRECTED
☐	REJECTED, REVISE & RESUBMIT
☐	RETURNED NOT REVIEWED
☒	REVISED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY	
Bob D. Campbell & Co., Inc.	
STRUCTURAL ENGINEERS	
DATE: 05/30/2022	BY: CB

NOTE: Yellow ID Tag Location Indicates
Left/Front/Bottom of Truss



Reference #: JB-220696

Date: 5/20/2022

Address:

2100 NW Lowenstein Dr
Lee's Summit
MO

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC



Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/20/2022

REVIEWED ☒ DATE RECEIVED:
REVIEWED AS NOTED ☐ DATE RECEIVED: 6/6/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva
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☐ APPROVED
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☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/30/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220696
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:			
Design Code: IBC 2018		IntelliVIEW Version: 21.02.00	
		JRef #: 1XfP93160003	
Wind Standard: ASCE 7-16	Wind Speed (mph): 109	Design Loading (psf): 65.00	
Building Type: Closed			

This package contains general notes pages, 82 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss
1	140.22.1622.47732	J01G
3	140.22.1622.47684	J03
5	140.22.1622.47988	T02
7	140.22.1622.46043	T04
9	140.22.1622.48054	T06
11	140.22.1622.47461	T08
13	140.22.1622.45492	T11
15	140.22.1622.47100	T13
17	140.22.1622.46728	T15
19	140.22.1624.43947	T18
21	140.22.1622.45482	T20
23	140.22.1624.55133	T22
25	140.22.1622.48057	T24
27	140.22.1622.46509	T26
29	140.22.1622.47535	T28
31	140.22.1622.45544	T30
33	140.22.1622.46621	T33
35	140.22.1622.45699	T35
37	140.22.1622.47315	T37
39	140.22.1622.47750	T39
41	140.22.1622.47363	T41
43	140.22.1622.46104	T43
45	140.22.1622.47985	T45
47	140.22.1622.45495	T47
49	140.22.1622.46305	T49

Item	Drawing Number	Truss
2	140.22.1622.47887	J02
4	140.22.1622.48219	T01
6	140.22.1622.46320	T03
8	140.22.1622.45698	T05
10	140.22.1622.48104	T07
12	140.22.1622.48098	T10
14	140.22.1622.46877	T12
16	140.22.1622.48145	T14
18	140.22.1624.26180	T17
20	140.22.1622.47553	T19
22	140.22.1622.47269	T21
24	140.22.1622.47795	T23
26	140.22.1622.46426	T25
28	140.22.1622.45991	T27
30	140.22.1622.47313	T29
32	140.22.1622.46164	T31
34	140.22.1622.47864	T34
36	140.22.1622.47147	T36
38	140.22.1622.47669	T38
40	140.22.1622.46032	T40
42	140.22.1622.48020	T42
44	140.22.1622.48287	T44
46	140.22.1622.47804	T46
48	140.22.1622.48251	T48
50	140.22.1622.45200	T50



Alpine, an ITW company
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North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

05/20/2022

Site Information:	Page 2:
Customer: Mill Creek Truss	Job Number: JB-220696
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	140.22.1622.47159	T51
53	140.22.1622.44943	TGE01
55	140.22.1622.44899	TGE03
57	140.22.1622.44011	TGE05
59	140.22.1622.43756	TGE07
61	140.22.1622.44721	TGE09
63	140.22.1622.44541	TGE11
65	140.22.1622.43759	TGE13
67	140.22.1622.44540	TGE15
69	140.22.1622.44261	TGE17
71	140.22.1622.47228	TGE19
73	140.22.1622.47479	TGE21
75	140.22.1622.43770	TGE23
77	140.22.1625.02503	T16
79	140.22.1625.06490	T48A
81	140.22.1622.47570	TGE24
83	A11530ENC160118	
85	DEFLCAMB1014	
87	GBLLETIN0118	

Item	Drawing Number	Truss
52	140.22.1622.47604	T52
54	140.22.1622.44668	TGE02
56	140.22.1622.45090	TGE04
58	140.22.1622.43760	TGE06
60	140.22.1622.45195	TGE08
62	140.22.1622.44589	TGE10
64	140.22.1622.43815	TGE12
66	140.22.1622.44232	TGE14
68	140.22.1622.44390	TGE16
70	140.22.1622.43926	TGE18
72	140.22.1622.48204	TGE20
74	140.22.1622.47480	TGE22
76	140.22.1624.57520	T09
78	140.22.1625.04457	T32
80	140.22.1622.46957	J02A
82	140.22.1625.39033	T08A
84	BRCLBSUB0119	
86	GABRST160118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

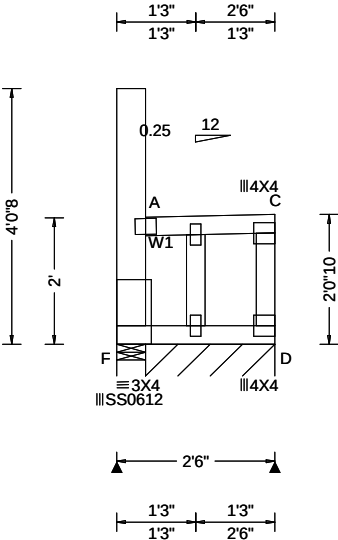
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 12

SEQN: 37157 / FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J01G	Cust: R 9316 JRef:1XIP93160003 T208 DrwNo: 140.22.1622.47732 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): 18SS, WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 A 999 360 VERT(CL): 0.007 A 999 240 HORZ(LL): 0.092 A - - HORZ(TL): 0.105 A - - Creep Factor: 2.0 Max TC CSI: 0.129 Max BC CSI: 0.373 Max Web CSI: 0.164 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				F	47	/-	/-	/124	/146	/99
				D*	134	/-	/-	/130	/58	/-

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.
Truss must be installed as shown with top chord up.

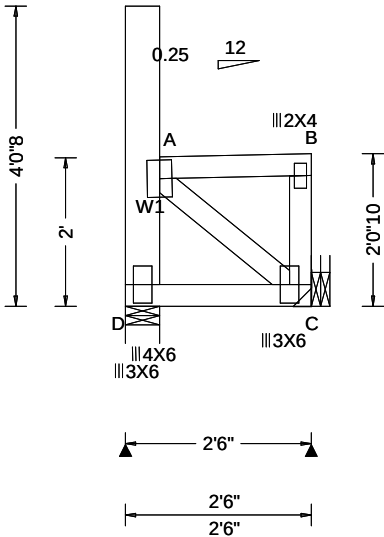


05/20/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 37158 / FROM:	MONO Ply: 1 Qty: 27	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02	Cust: R 9316 JRef:1XIP93160003 T218 DrwNo: 140.22.1622.47887 / NDW 05/20/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.000 B 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.000 B 999 240		D	147	/-	/-	/114	/80	/91
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.001 B - -		C	173	/-	/-	/158	/64	/-
Des Ld: 65.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE		HORZ(TL): 0.001 B - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 21.70 ft				Creep Factor: 2.0		D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.103		C Brg Wid = - Min Req = -						
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.079		Bearing D is a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2				Max Web CSI: 0.131		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft						Maximum Web Forces Per Ply (lbs)						
		Loc. from endwall: Any						Webs Tens.Comp.						
		GCpi: 0.18												
		Wind Duration: 1.60						A - C 240 -390						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

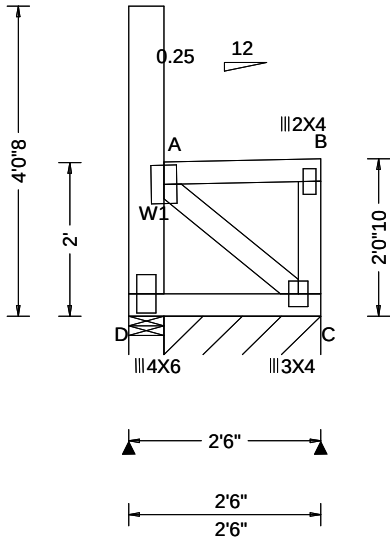
Additional Notes
Truss must be installed as shown with top chord up.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025	
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Building 12

SEQN: 37160 / FROM:	MONO Ply: 1 Qty: 6	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J03	Cust: R 9316 JRef:1XIP93160003 T135 DrwNo: 140.22.1622.47684 / NDW 05/20/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00		Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	D	147	/-	/-	/123	/86	/99
BCDL: 15.00		Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	C*	85	/-	/-	/78	/34	/-
Des Ld: 65.00		EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 21.70 ft	Building Code:	Creep Factor: 2.0	D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.103	C Brg Wid = 24.5 Min Req = -						
Load Duration: 1.15		BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.079	Bearings D & D are a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.106	Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
		Loc. from endwall: not in 14.50 ft	Plate Type(s):								
		GCpi: 0.18									
		Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes
All plates are 3X6 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

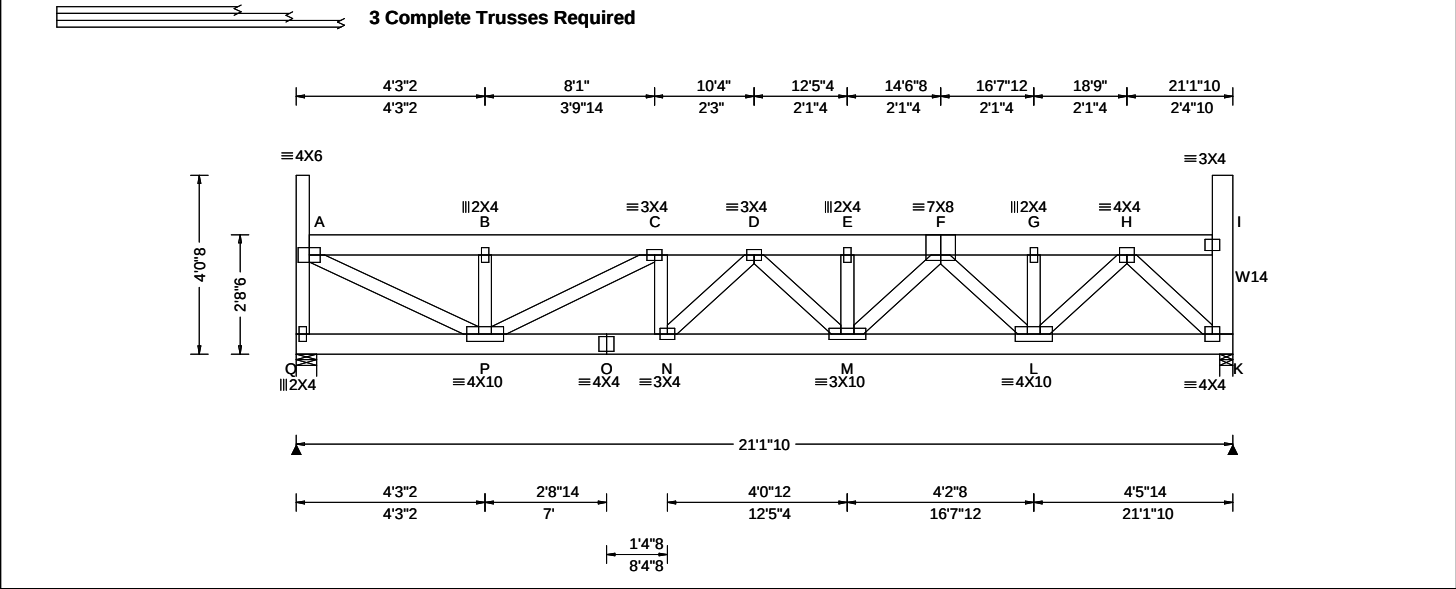
Additional Notes
Truss must be installed as shown with top chord up.



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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 37240 / FROM:	FLAT Ply: 3 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T01	Cust: R 9316 JRef:1XIP93160003 T2 / DrwNo: 140.22.1622.48219 / NDW 05/20/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.060 D 999 360 VERT(CL): 0.111 D 999 240 HORZ(LL): 0.014 K - - HORZ(TL): 0.026 K - - Creep Factor: 2.0 Max TC CSI: 0.054 Max BC CSI: 0.283 Max Web CSI: 0.291 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs) <table><tr><th colspan="3">Gravity</th><th colspan="3">Non-Gravity</th></tr><tr><th>Loc</th><th>R+</th><th>/ R-</th><th>/ Rh</th><th>/ Rw</th><th>/ U / RL</th></tr><tr><td>Q</td><td>1981</td><td>-/-</td><td>-/-</td><td>-/-</td><td>/125 -/-</td></tr><tr><td>K</td><td>2325</td><td>-/-</td><td>-/-</td><td>-/-</td><td>/158 -/-</td></tr></table> Wind reactions based on MWFRS Q Brg Wid = 5.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings Q & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)<table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>A - B</td><td>72 - 1106</td><td>E - F</td><td>163 - 2215</td></tr><tr><td>B - C</td><td>72 - 1102</td><td>F - G</td><td>98 - 1390</td></tr><tr><td>C - D</td><td>123 - 1792</td><td>G - H</td><td>98 - 1390</td></tr><tr><td>D - E</td><td>163 - 2215</td><td></td><td></td></tr></table>Maximum Bot Chord Forces Per Ply (lbs)<table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>P - O</td><td>1751 - 119</td><td>M - L</td><td>1836 - 133</td></tr><tr><td>O - N</td><td>1751 - 119</td><td>L - K</td><td>768 - 54</td></tr><tr><td>N - M</td><td>2024 - 144</td><td></td><td></td></tr></table>Maximum Web Forces Per Ply (lbs)<table><tr><th>Webs</th><th>Tens.Comp.</th><th>Webs</th><th>Tens. Comp.</th></tr><tr><td>Q - A</td><td>40 - 620</td><td>F - L</td><td>50 - 652</td></tr><tr><td>A - P</td><td>1188 - 77</td><td>L - H</td><td>908 - 65</td></tr><tr><td>P - C</td><td>55 - 752</td><td>H - K</td><td>74 - 1041</td></tr><tr><td>M - F</td><td>554 - 44</td><td></td><td></td></tr></table>	Gravity			Non-Gravity			Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL	Q	1981	-/-	-/-	-/-	/125 -/-	K	2325	-/-	-/-	-/-	/158 -/-	Chords	Tens.Comp.	Chords	Tens. Comp.	A - B	72 - 1106	E - F	163 - 2215	B - C	72 - 1102	F - G	98 - 1390	C - D	123 - 1792	G - H	98 - 1390	D - E	163 - 2215			Chords	Tens.Comp.	Chords	Tens. Comp.	P - O	1751 - 119	M - L	1836 - 133	O - N	1751 - 119	L - K	768 - 54	N - M	2024 - 144			Webs	Tens.Comp.	Webs	Tens. Comp.	Q - A	40 - 620	F - L	50 - 652	A - P	1188 - 77	L - H	908 - 65	P - C	55 - 752	H - K	74 - 1041	M - F	554 - 44		
	Gravity			Non-Gravity																																																																																
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	Q	1981	-/-	-/-	-/-	/125 -/-																																																																														
	K	2325	-/-	-/-	-/-	/158 -/-																																																																														
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P - C	55 - 752	H - K	74 - 1041																																																																																	
M - F	554 - 44																																																																																			

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 60 plf at 0.00 to 60 plf at 21.14
BC: 1611 lb Conc. Load at 12.90

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.
Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 20.39 1.34 13.80 3.32
20.68 0.00 20.39 1.34 13.80 3.32
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.



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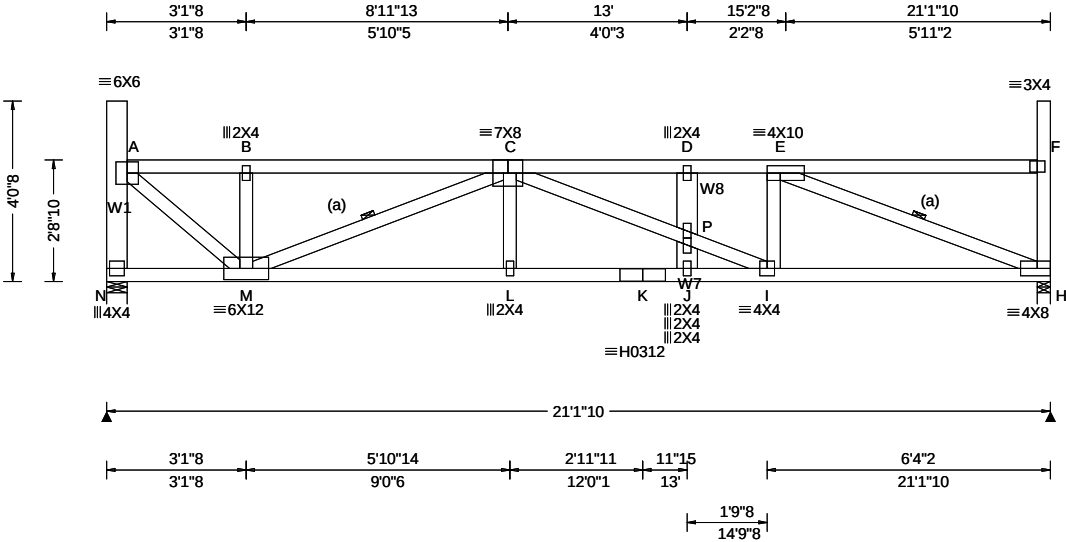
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37161 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T02	Cust: R 9316 JRef:1XIP93160003 T165 DrwNo: 140.22.1622.47988 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity						
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(LL): 0.138 D	999	360				
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	VERT(CL): 0.256 D	990	240				
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(LL): 0.036 H	-	-					
NCBCLL: 0.00	Mean Height: 22.39 ft	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	HORZ(TL): 0.066 H	-	-					
Soffit: 2.00	TCDL: 5.0 psf		Creep Factor: 2.0							
Load Duration: 1.15	BCDL: 3.0 psf		Max TC CSI: 0.439							
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h		Max BC CSI: 0.523							
	C&C Dist a: 3.00 ft		Max Web CSI: 0.606							
	Loc. from endwall: Any									
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



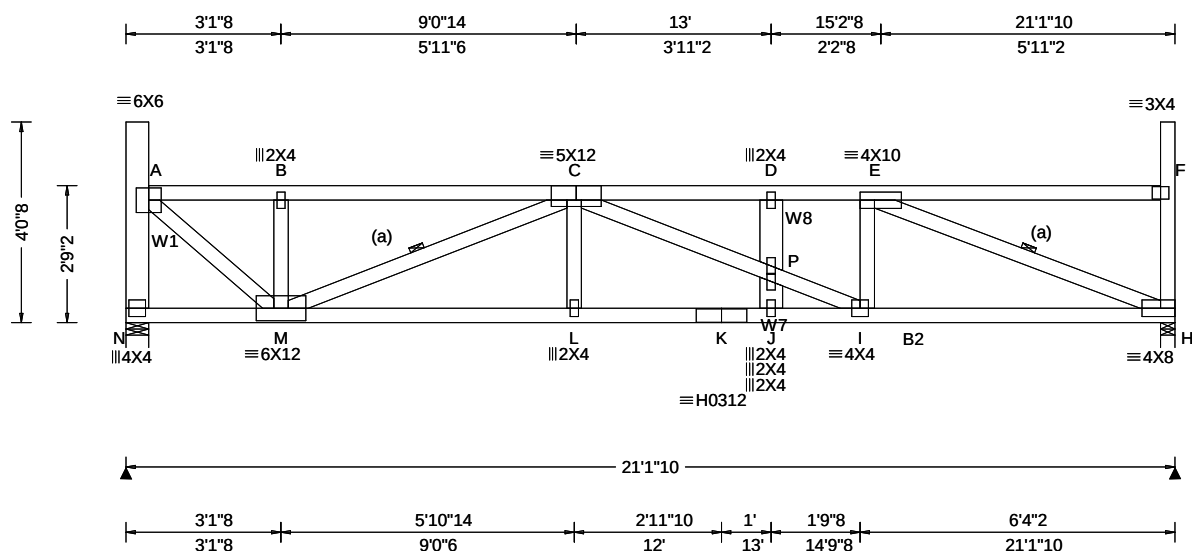
05/20/2022

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Building 12

SEQN: 37162 /	FLAT	Ply: 1	Job Number: JB-220696	Cust: R 9316 JRef:1XIP93160003 T168
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 140.22.1622.46320
			Truss Label: T03	/ NDW 05/20/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity Loc R+ /R- /Rh / Rw / U / RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.142 D 999 360	N 1342 L/- - /- /640 /78 /120
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.265 D 957 240	H 1353 -/- - /644 /80 -/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.040 H - -	HORZ(TL): 0.075 H - -
Des Ld: 65.00	EXP: B Kzt: NA		Creep Factor: 2.0	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.43 ft	Building Code:	Max TC CSI: 0.440	N Brg Wid = 5.5 Min Req = 2.1 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max BC CSI: 0.996	H Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max Web CSI: 0.600	Bearings N & H are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes		Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	WAVE. HS	VIEW Ver: 21.02.00.1005.17	A - B 135 - 1601 C - D 146 - 2612
	Wind Duration: 1.60			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

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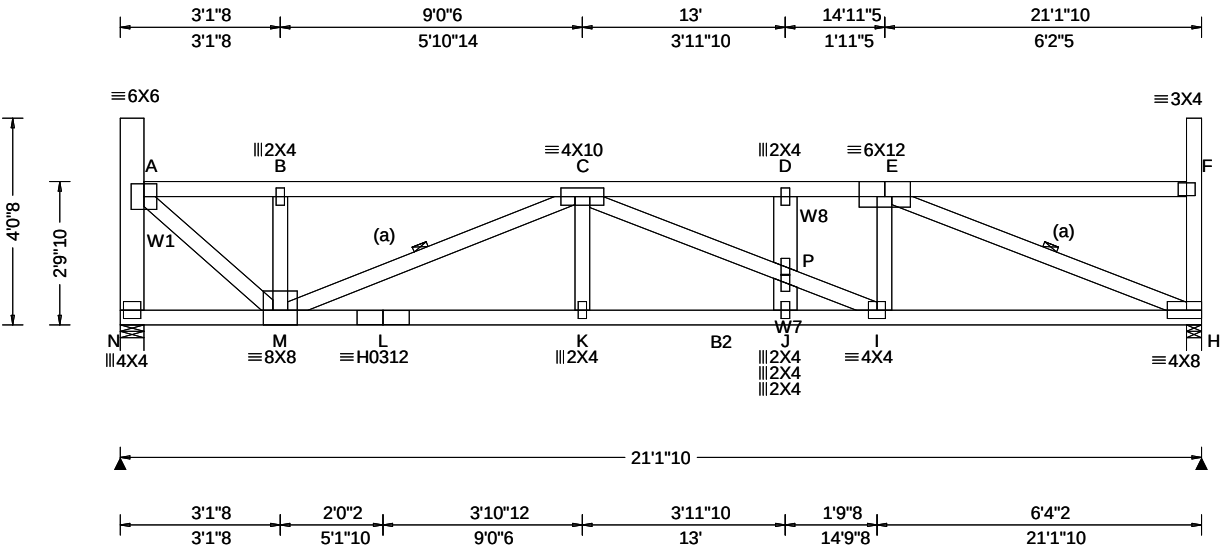


ALPINE
MUSIC COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37163 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T04	Cust: R 9316 JRef:1XIP93160003 T134 DrwNo: 140.22.1622.46043 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.132 D 999 360 VERT(CL): 0.236 D 999 240 HORZ(LL): 0.036 H - - HORZ(TL): 0.067 H - - Creep Factor: 2.0 Max TC CSI: 0.440 Max BC CSI: 0.919 Max Web CSI: 0.592 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1342 - / - / - / 639 / 78 / 119 H 1353 - / - / - / 644 / 80 / - Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 2.1 (Truss) H Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 133 -1571 C - D 168 -2565 B - C 132 -1567 D - E 168 -2565

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.24 10.35 2.50
20.84 0.00 20.39 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



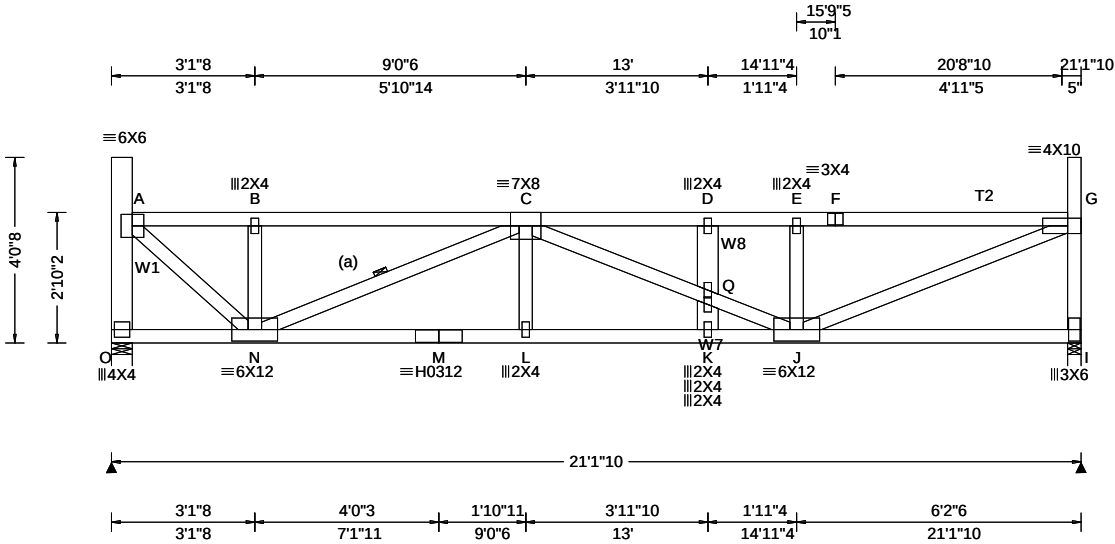
05/20/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37232 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T05	Cust: R 9316 JRef:1XIP93160003 T167 DrwNo: 140.22.1622.45698 / NDW 05/20/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity			Non-Gravity				
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.153 D 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.283 D 895 240		O	1435	/-	/-	/-	/121	/-	
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.034 A - -		I	1602	/-	/-	/-	/245	/-	
Des Ld: 65.00		EXP: B Kzt: NA				HORZ(TL): 0.063 A - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height: 22.51 ft		Building Code:		Creep Factor: 2.0		O Brg Wid = 5.5 Min Req = 2.1 (Truss)							
Soffit: 2.00		TCDL: 5.0 psf		IBC 2018		Max TC CSI: 0.626		I Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration: 1.15		BCDL: 3.0 psf		TPI Std: 2014		Max BC CSI: 0.730		Bearings O & I are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		Rep Fac: Varies by Ld Case		Max Web CSI: 0.771		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)				Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall: Any		Plate Type(s):				Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18						A - B		144 -1659		D - E		444 -3020	
		Wind Duration: 1.60		WAVE, HS		VIEW Ver: 21.02.00.1005.17		B - C		144 -1656		E - F		444 -3017	

Lumber
Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 20.84
BC: From 60 plf at 0.00 to 60 plf at 13.29
BC: From 30 plf at 13.29 to 30 plf at 21.14
BC: 144 lb Conc. Load at 13.29,15.07,17.07,19.07

Additional Notes
Truss must be installed as shown with top chord up.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.20 8.97 2.16
20.84 0.00 20.39 1.20 8.97 2.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.



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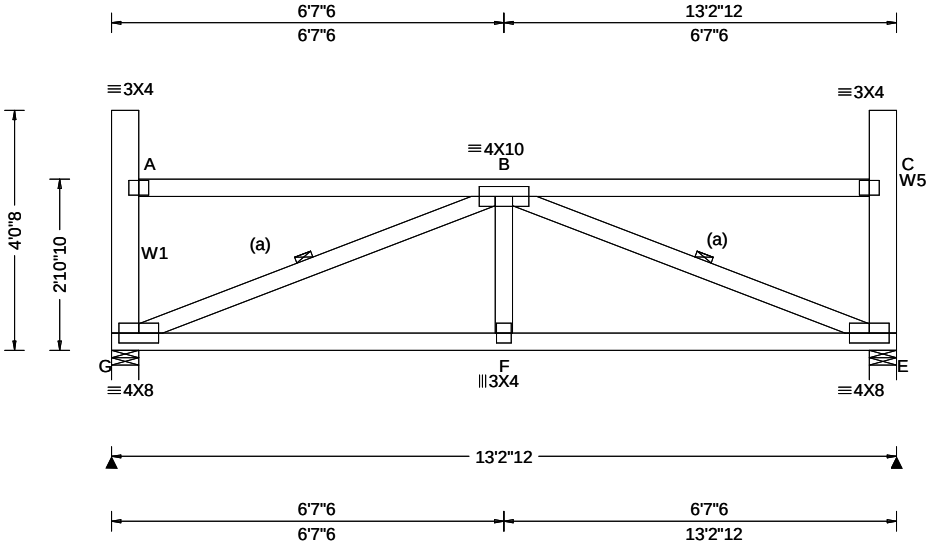
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Building 12

SEQN: 37164 / FROM:	SPEC Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T06	Cust: R 9316 JRef:1XIP93160003 T149 DrwNo: 140.22.1622.48054 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.55 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.043 F 999 360 VERT(CL): 0.080 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.028 E - - Creep Factor: 2.0 Max TC CSI: 0.546 Max BC CSI: 0.744 Max Web CSI: 0.315 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 828 /- /- /408 /59 /116 E 828 /- /- /408 /59 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1311 -166 F - E 1311 -166

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.59 1.83
12.77 0.00 20.00 1.16 7.59 1.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



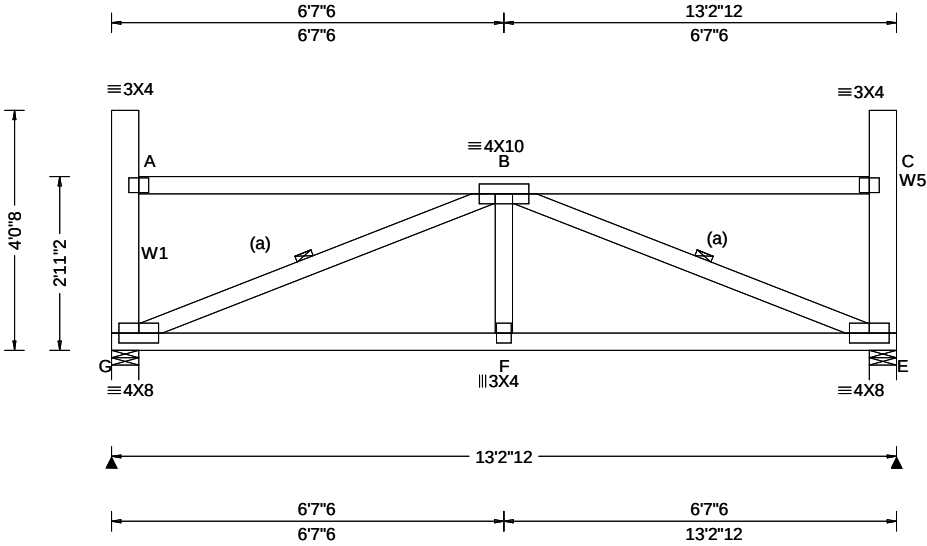
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Building 12

SEQN: 37165 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T07	Cust: R 9316 JRef:1XIP93160003 T146 DrwNo: 140.22.1622.48104 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.042 F 999 360 VERT(CL): 0.078 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.028 E - - Creep Factor: 2.0 Max TC CSI: 0.547 Max BC CSI: 0.741 Max Web CSI: 0.312 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 828 /- /- /407 /59 /115 E 828 /- /- /407 /59 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1291 -164 F - E 1291 -164

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.11 6.20 1.50
12.77 0.00 20.00 1.11 6.20 1.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



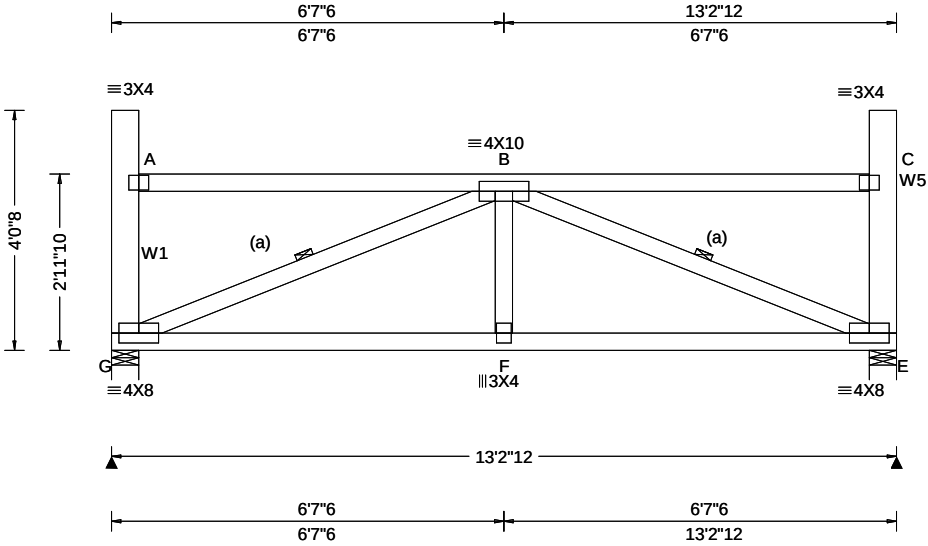
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37166 / FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08	Cust: R 9316 JRef:1XIP93160003 T150 DrwNo: 140.22.1622.47461 / NDW 05/20/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in	loc L/defl L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed: 109 mph	Pf: 15.4	Ce: 1.0	VERT(LL):	0.041 F 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure: Closed	Lu: -	Cs: 1.00	VERT(CL):	0.076 F 999 240	G	828	/-	/-	/407	/59	/114
BCDL:	15.00	Risk Category: II	Snow Duration: 1.15		HORZ(LL):	0.015 E - -	E	828	/-	/-	/407	/59	/-
Des Ld:	65.00	EXP: B Kzt: NA			HORZ(TL):	0.027 E - -	Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height: 22.64 ft	Building Code:		Creep Factor:	2.0	G	Brg Wid = 5.5	Min Req = 1.5 (Truss)				
Soffit:	2.00	TCDL: 5.0 psf	IBC 2018		Max TC CSI:	0.548	E	Brg Wid = 5.5	Min Req = 1.5 (Truss)				
Load Duration:	1.15	BCDL: 3.0 psf	TPI Std: 2014		Max BC CSI:	0.738	Bearings G & E are a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes		Max Web CSI:	0.309	Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)				Maximum Bot Chord Forces Per Ply (lbs)						
		Loc. from endwall: Any	Plate Type(s):				Chords	Tens.Comp.	Chords	Tens. Comp.			
		GCpi: 0.18											
		Wind Duration: 1.60	WAVE			VIEW Ver: 21.02.00.1005.17	G - F	1271	-162	F - E	1271	-162	

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
G - B	171 -1299	B - E	169 -1299
B - F	441 0		



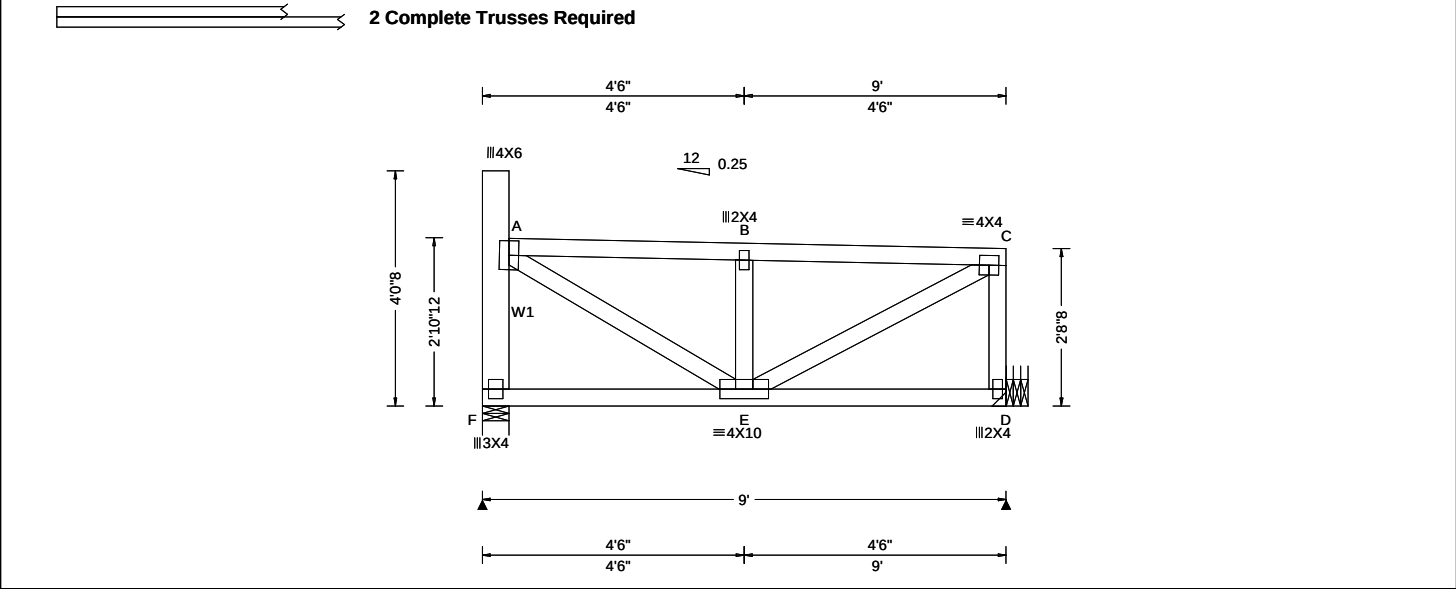
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Building 12

SEQN: 37239 / FROM:	MONO Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T10	Cust: R 9316 JRef:1XIP93160003 T1 / DrwNo: 140.22.1622.48098 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)									
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity									
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(LL): 0.015 B	999	360							
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	VERT(CL): 0.029 B	999	240	F	1371	/-	/-	/-	/183	/-
	Des Ld: 65.00	EXP: B Kzt: NA		HORZ(LL): 0.004 A	-	-	D	1611	/-	/-	/-	/155	/-
	NCBCLL: 0.00	Mean Height: 22.46 ft		HORZ(TL): 0.007 A	-	-	Wind reactions based on MWFRS						
	Soffit: 2.00	TCDL: 5.0 psf	Building Code:	Creep Factor: 2.0	F Brg Wid = 5.5 Min Req = 1.5 (Truss)								
	Load Duration: 1.15	BCDL: 3.0 psf	IBC 2018	Max TC CSI: 0.128	D Brg Wid = - Min Req = -								
	Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.459	Bearing F is a rigid surface.								
	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.235	Members not listed have forces less than 375#									
	Loc. from endwall: not in 29.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)									
	GCpi: 0.18	Plate Type(s):		Chords	Tens.Comp.	Chords	Tens. Comp.						
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	A - B	100	-859	B - C	100	-860				

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Additional Notes Truss must be installed as shown with top chord up. Use Simpson Hangers installed per manufacturer's specs., sized for magnitude and angle of tie-in load and to fit carrying/tie-in member depth and/or width.	Maximum Web Forces Per Ply (lbs) <table><tr><th>Webs</th><th>Tens.Comp.</th><th>Webs</th><th>Tens. Comp.</th></tr><tr><td>F - A</td><td>54 -490</td><td>E - C</td><td>959 -112</td></tr><tr><td>A - E</td><td>909 -102</td><td>C - D</td><td>58 -507</td></tr></table>	Webs	Tens.Comp.	Webs	Tens. Comp.	F - A	54 -490	E - C	959 -112	A - E	909 -102	C - D	58 -507
Webs	Tens.Comp.	Webs	Tens. Comp.											
F - A	54 -490	E - C	959 -112											
A - E	909 -102	C - D	58 -507											
Nailnote														

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 60 plf at 0.00 to 60 plf at 2.33
BC: From 30 plf at 2.33 to 30 plf at 9.00
BC: 762 lb Conc. Load at 2.33
BC: 527 lb Conc. Load at 4.33, 6.33, 8.33

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.84
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

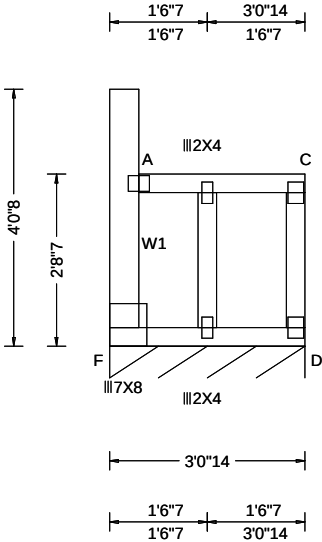


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Building 12

SEQN: 37168 / FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T11	Cust: R 9316 JRef:1XIP93160003 T187 DrwNo: 140.22.1622.45492 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 360 VERT(CL): 0.009 A 999 240 HORZ(LL): 0.117 A - - HORZ(TL): 0.136 A - - Creep Factor: 2.0 Max TC CSI: 0.116 Max BC CSI: 0.326 Max Web CSI: 0.142 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				D*	120	/-	/-	/56	/5	/30
				Wind reactions based on MWFRS D Brg Wid = 36.9 Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.34 13.63 2.61
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, &
GABRST160118 for gable wind bracing and other
requirements.
Truss must be installed as shown with top chord up.



05/20/2022

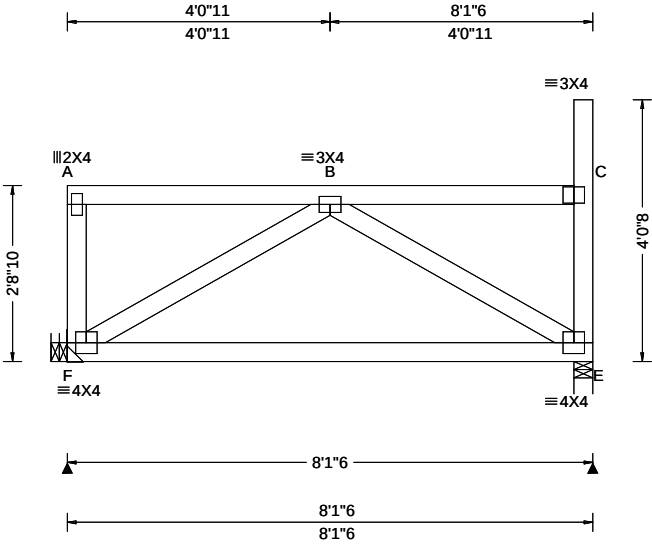
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37169 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T12	Cust: R 9316 JRef:1XIP93160003 T110 DrwNo: 140.22.1622.46877 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	F 527	/-		/-	/270	/46	/93
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	E 507	/-		/-	/255	/47	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	F Brg Wid = -			Min Req = -			
NCBCLL: 0.00	Mean Height: 22.39 ft	Building Code:	Creep Factor: 2.0	E Brg Wid = 3.5			Min Req = 1.5 (Truss)			
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.217	Bearing E is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.611	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.204							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.32 13.12 3.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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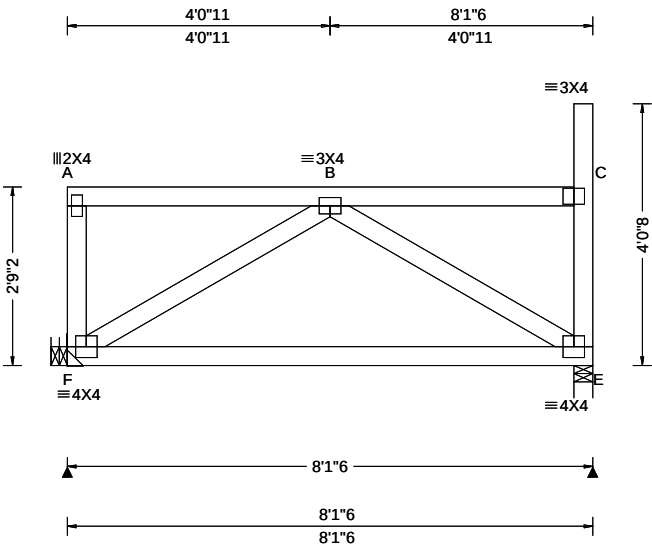
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

05/20/2022

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37170 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T13	Cust: R 9316 JRef:1XFP93160003 T229 DrwNo: 140.22.1622.47100 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	F	527	/-	/-	/270	/46	/92
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	E	507	/-	/-	/255	/47	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	F	Brg Wid = -			Min Req = -		
NCBCLL: 0.00	Mean Height: 22.43 ft	Building Code:	Creep Factor: 2.0	E	Brg Wid = 3.5			Min Req = 1.5 (Truss)		
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.217	Bearing E is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.611	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.204							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.28 11.74 2.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

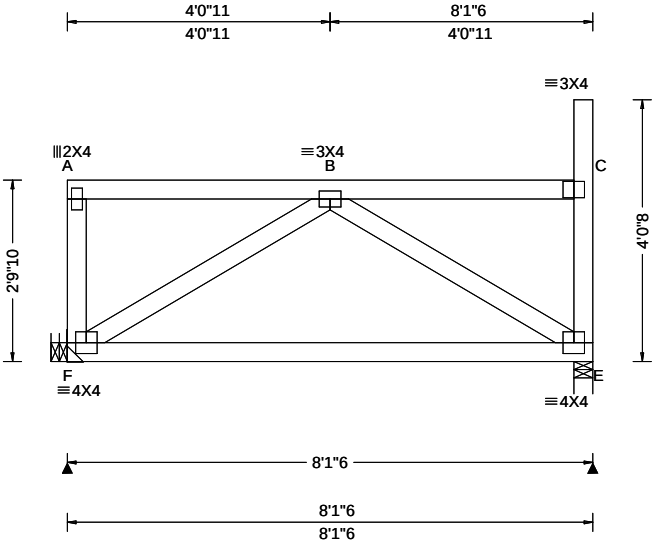
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37171 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T14	Cust: R 9316 JRef:1XIP93160003 T206 DrwNo: 140.22.1622.48145 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)												
				Gravity			Non-Gravity									
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL						
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	F	527	/-	/-	/270	/46	/92						
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.007 B 999 240	E	507	/-	/-	/255	/47	/-						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS												
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	F	Brg Wid = -		Min Req = -									
NCBCLL: 0.00	Mean Height: 22.47 ft	Building Code:	Creep Factor: 2.0	E	Brg Wid = 3.5		Min Req = 1.5 (Truss)									
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.218	Bearing E is a rigid surface.												
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.610	Members not listed have forces less than 375#												
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.203													
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)														
	Loc. from endwall: Any	Plate Type(s):														
	GCpi: 0.18															
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17													

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

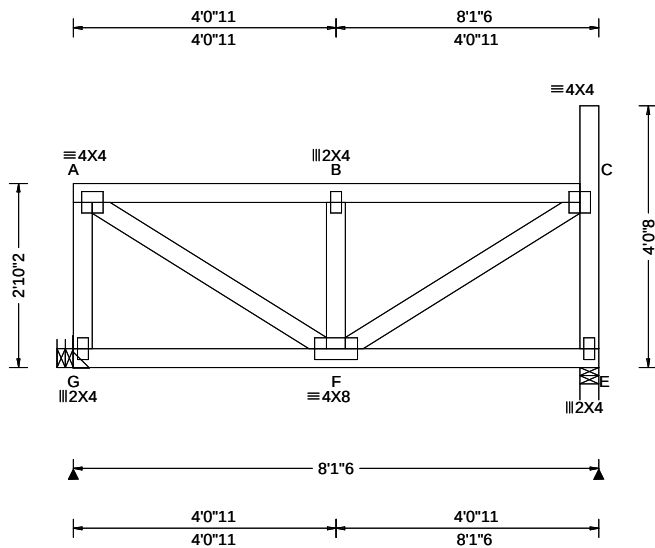


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SEQN: 37234 / FROM:	FLAT	Ply: 1 Qty: 2	Job Number: JB-220696 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T15	Cust: R 9316 JRef: 1XIP93160003 T212 DrwNo: 140.22.1622.46728 / NDW 05/20/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in	loc L/defl	L/#	Gravity			Non-Gravity				
TCDL: 15.00	Speed: 109 mph	Pf: 15.4		Ce: 1.0	VERT(LL):	0.012 B	999 360	Loc	R+	/R-	/Rh	/Rw	/U	/RL	
BCLL: 15.00	Enclosure: Closed		Cs: 1.00		VERT(CL):	0.021 B	999 240	G	762	/-	/-	/-	/172	/-	
BCDL: 15.00	Risk Category: II		Snow Duration: 1.15		HORZ(LL):	-0.002 C	- -	E	607	/-	/-	/-	/114	/-	
Des Ld: 65.00	EXP: B Kzt: NA				HORZ(TL):	0.004 C	- -	Wind reactions based on MWFRS							
NCBCLL: 0.00	Mean Height: 22.51 ft			Building Code:	Creep Factor: 2.0										
Soffit: 2.00	TCDL: 5.0 psf			IBC 2018	Max TC CSI: 0.239										
Load Duration: 1.15	BCDL: 3.0 psf			TPI Std: 2014	Max BC CSI: 0.340										
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2			Rep Fac: Varies by Ld Case	Max Web CSI: 0.190										
	C&C Dist a: 3.00 ft			FT/RT:20(0)/10(0)											
	Loc. from endwall: Any			Plate Type(s):											
	GCpi: 0.18														
	Wind Duration: 1.60			WAVE											
					VIEW Ver: 21.02.00.1005.17										
								Members not listed have forces less than 375#							
								Maximum Top Chord Forces Per Ply (lbs)							
								Chords		Tens.Comp.		Chords		Tens. Comp.	
								A - B	138	-667	B - C	138	-671		

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC:	From	70 plf at	0.00 to	70 plf at	7.82
BC:	From	30 plf at	0.00 to	30 plf at	8.11
BC:	144 lb Conc. Load at 0.27, 2.05, 4.05, 6.05				

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



05/20/2022

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▲ Maximum Reactions (lbs)							
Loc	Gravity			Non-Gravity			
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
G	762	/-	/-	/-	/172	/-	
E	607	/-	/-	/-	/114	/-	
Wind reactions based on MWFRS							
G	Brg Wid = -		Min Req = -				
E	Brg Wid = 3.5		Min Req = 1.5 (Truss)				
Bearing E is a rigid surface.							
Members not listed have forces less than 375#							
Maximum Top Chord Forces Per Ply (lbs)							
Chords			Tens. Comp.				
Chords			Tens. Comp.				
A - B		138	-667	B - C		138	-671

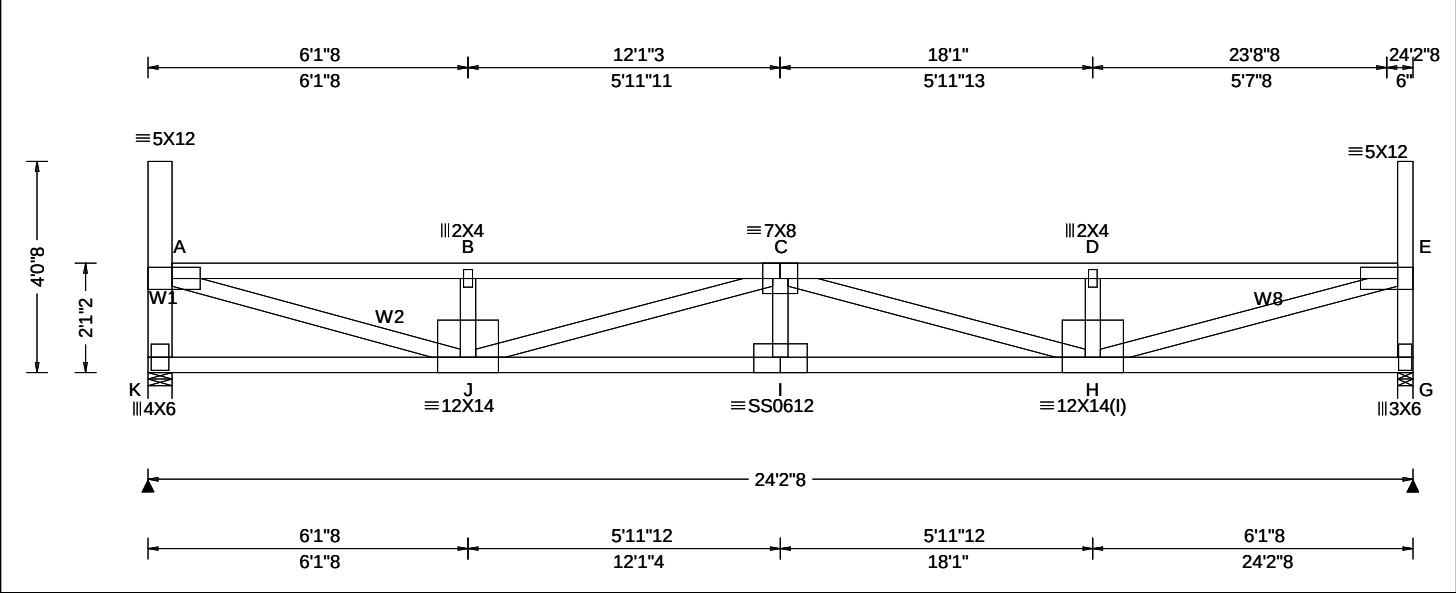
Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.		Webs	Tens. Comp.	
A - G	94	-528	F - C	745	-155
A - F	773	-160	C - E	93	-510

ALPINE
AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37172 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T17	Cust: R 9316 JRef:1XIP93160003 T175 DrwNo: 140.22.1624.26180 / PPH 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.76 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.389 I 746 360 VERT(CL): 0.723 I 401 240 HORZ(LL): 0.061 A - - HORZ(TL): 0.113 A - - Creep Factor: 2.0 Max TC CSI: 0.955 Max BC CSI: 0.730 Max Web CSI: 0.868 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 -/- /- /733 /84 /139 G 1553 -/- /- /738 /86 -/ Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 258 -4188 C - D 257 -4194 B - C 257 -4183 D - E 258 -4199

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; W2, W8 2x4 SPF 2100f-1.8E;

Plating Notes
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.95 33.87 4.20
23.92 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.39" DL: 0.33". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

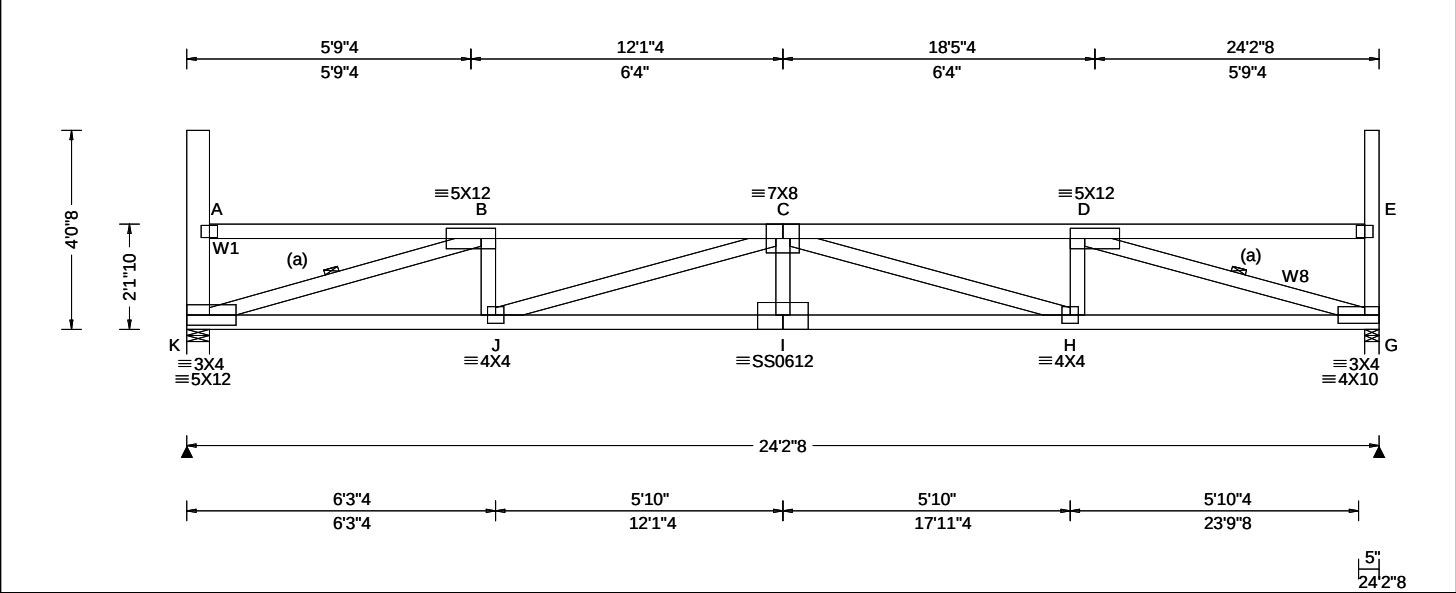
Additional Notes
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 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025		

Building 12

SEQN: 37243	FLAT	Ply: 1	Job Number: JB-220696	Cust: R 9316 JRef:1XFP93160003 T180
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 140.22.1624.43947
			Truss Label: T18	/ PPH 05/20/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL): 0.383 I 758 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL:	15.00	Enclosure:	Closed	Lur: -	Cs: 1.00	VERT(CL): 0.694 I 418 240		K	1588	/-	/-	/733	/85	/138	
BCDL:	15.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL): 0.081 G - -		G	1600	/-	/-	/737	/87	/-	
Des Ld:	65.00	EXP:	B Kzt: NA			HORZ(TL): 0.147 G - -		Wind reactions based on MWFRS							
NCBCLL:	0.00	Mean Height:	21.80 ft	Building Code:		Creep Factor: 2.0		K Brg Wid = 5.5 Min Req = 2.0 (Truss)							
Soffit:	2.00	TCDL:	5.0 psf	IBC 2018		Max TC CSI: 0.775		G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration:	1.15	BCDL:	3.0 psf	TPI Std: 2014		Max BC CSI: 0.722		Bearings K & G are a rigid surface.							
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2	Rep Fac: Yes		Max Web CSI: 0.864		Members not listed have forces less than 375#							
		C&C Dist a:	3.00 ft	FT/RT:20(0)/10(0)				Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall:	Any	Plate Type(s):				Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi:	0.18												
		Wind Duration:	1.60	WAVE, 18SS		VIEW Ver: 21.02.00.1005.17		B - C		249 - 4243		C - D		249 - 4263	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.38" DL: 0.31". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

▲ Maximum Reactions (lbs)						
Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K	1588	/-	/-	/733	/85	/138
G	1600	/-	/-	/737	/87	/-
Wind reactions based on MWFRS						
K	Brg Wid = 5.5		Min Req = 2.0 (Truss)			
G	Brg Wid = 3.5		Min Req = 2.0 (Truss)			
Bearings K & G are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords		Tens.Comp.	Chords		Tens. Comp.	
B - C		249 - 4243	C - D		249	- 4263

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
K - J	4122	- 361	I - H	5460	- 321
J - I	5460	- 321	H - G	4140	- 216

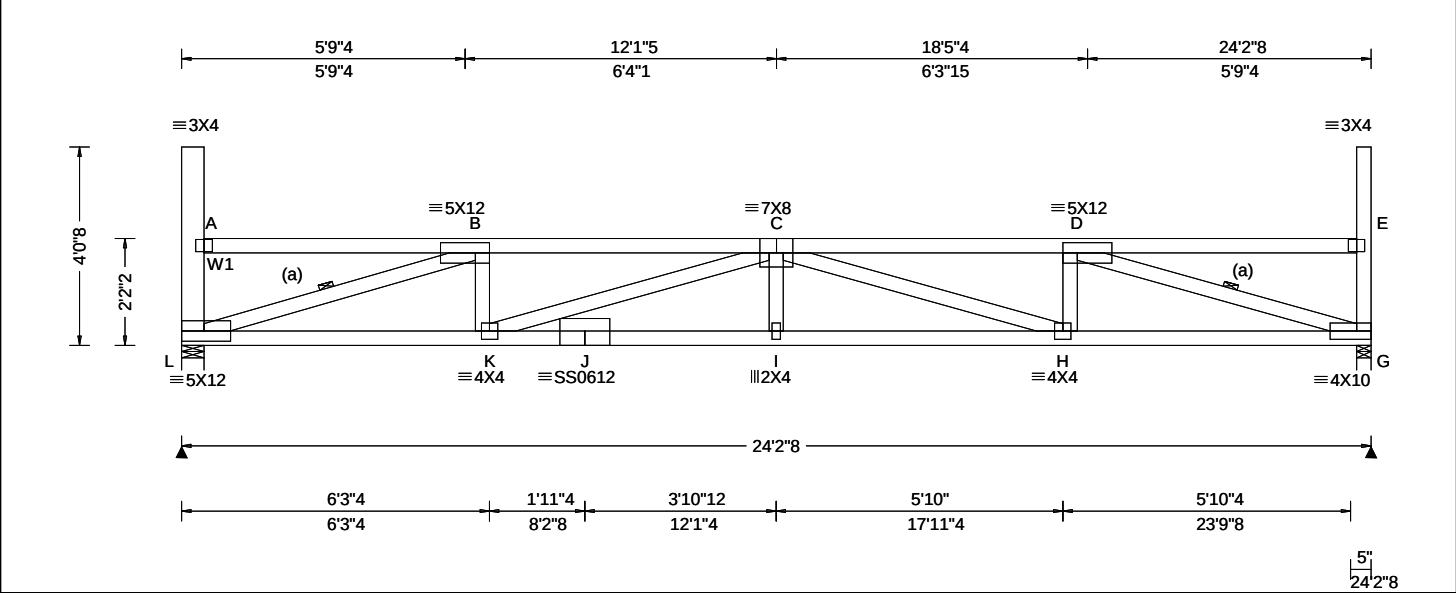
Maximum Web Forces Per Ply (lbs)					
Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - B	252	-4207	C - H	139	-1256
B - J	771	-2	H - D	786	-1
J - C	141	-1277	D - G	250	-4277

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Building 12

SEQN: 37174 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T19	Cust: R 9316 JRef:1XIP93160003 T171 DrwNo: 140.22.1622.47553 / NDW 05/20/2022
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Loading Criteria (psf)	TCLL: 20.00	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.84 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.356 I 817 360 VERT(CL): 0.661 I 439 240 HORZ(LL): 0.075 G - - HORZ(TL): 0.139 G - - Creep Factor: 2.0 Max TC CSI: 0.703 Max BC CSI: 0.691 Max Web CSI: 0.853 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
	TCDL: 15.00				Gravity			Non-Gravity			
	BCLL: 15.00				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCDL: 15.00				L	1542	/-	/-	/732	/85	/136
	Des Ld: 65.00				G	1553	/-	/-	/737	/87	/-
	NCBCLL: 0.00				Wind reactions based on MWFRS						
	Soffit: 2.00				L Brg Wid = 5.5		Min Req = 2.0 (Truss)				
	Load Duration: 1.15				G Brg Wid = 3.5		Min Req = 2.0 (Truss)				
	Spacing: 24.0 "				Bearings L & G are a rigid surface.						
					Members not listed have forces less than 375#						
	Maximum Top Chord Forces Per Ply (lbs)										
	Chords	Tens.Comp.	Chords	Tens. Comp.							
	B - C	244 - 4029	C - D	244 - 4040							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.86	31.10 4.58
	23.92	0.00	23.46	1.86	31.10 4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



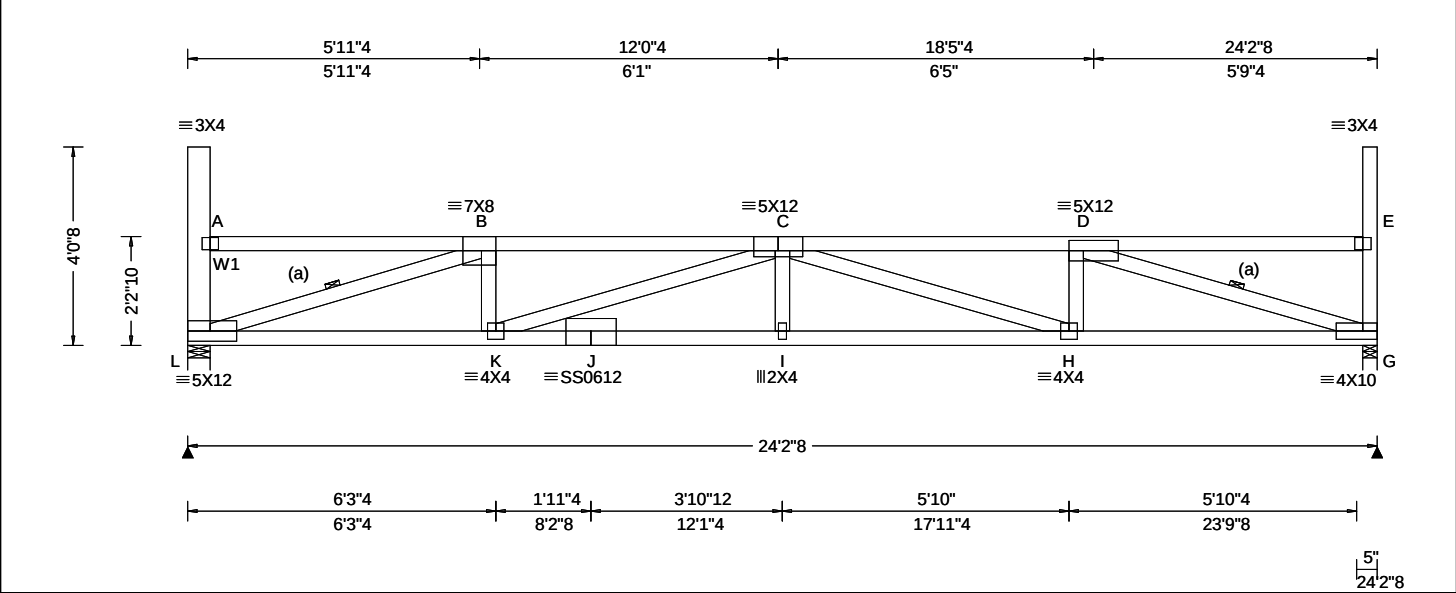
05/20/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37175 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T20	Cust: R 9316 JRef:1XIP93160003 T179 DrwNo: 140.22.1622.45482 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.89 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.341 I 851 360 VERT(CL): 0.634 I 457 240 HORZ(LL): 0.073 G - - HORZ(TL): 0.137 G - - Creep Factor: 2.0 Max TC CSI: 0.680 Max BC CSI: 0.681 Max Web CSI: 0.839 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /85 /135 G 1553 /- /- /737 /87 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 240 -3945 C - D 240 -3955

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.82	29.72	4.79
23.92	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

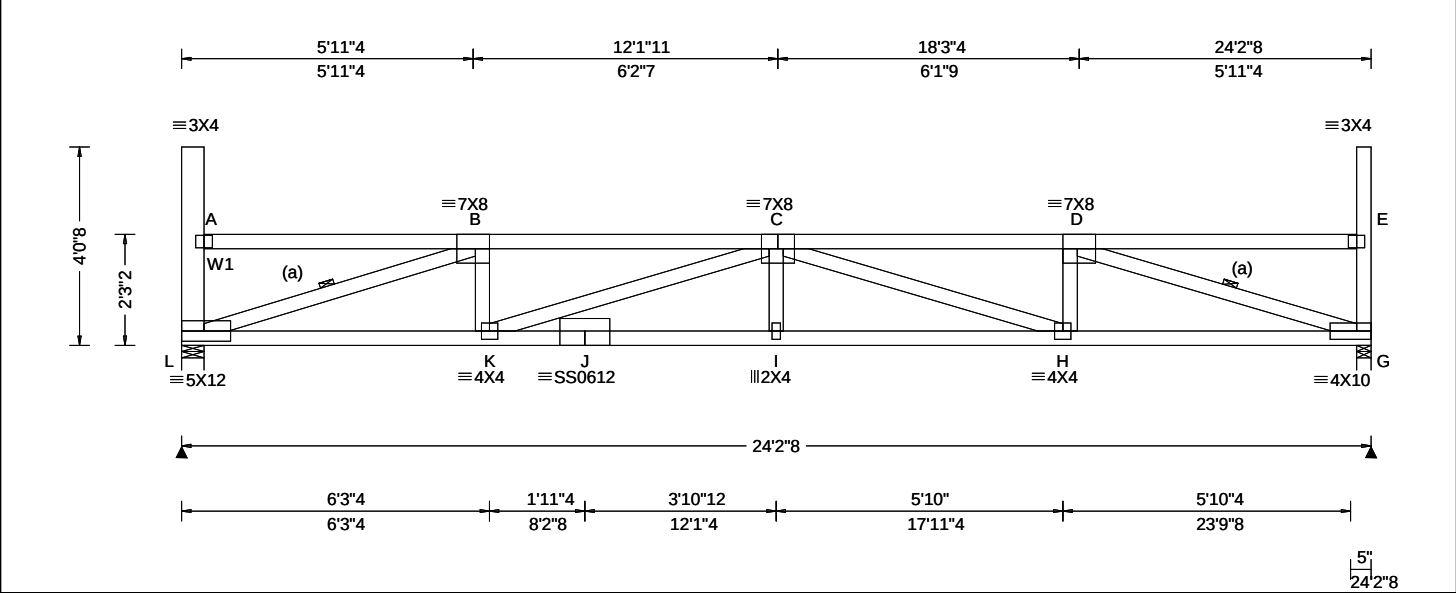
Truss must be installed as shown with top chord up.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org		05/20/2022
 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025		

Building 12

SEQN: 37176 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T21	Cust: R 9316 JRef:1XIP93160003 T183 DrwNo: 140.22.1622.47269 / PPH 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.93 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.327 I 887 360 VERT(CL): 0.608 I 477 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.134 G - - Creep Factor: 2.0 Max TC CSI: 0.656 Max BC CSI: 0.671 Max Web CSI: 0.824 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1540 /- /- /732 /85 /134 G 1552 /- /- /737 /87 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 211 -3859 C - D 211 -3870

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



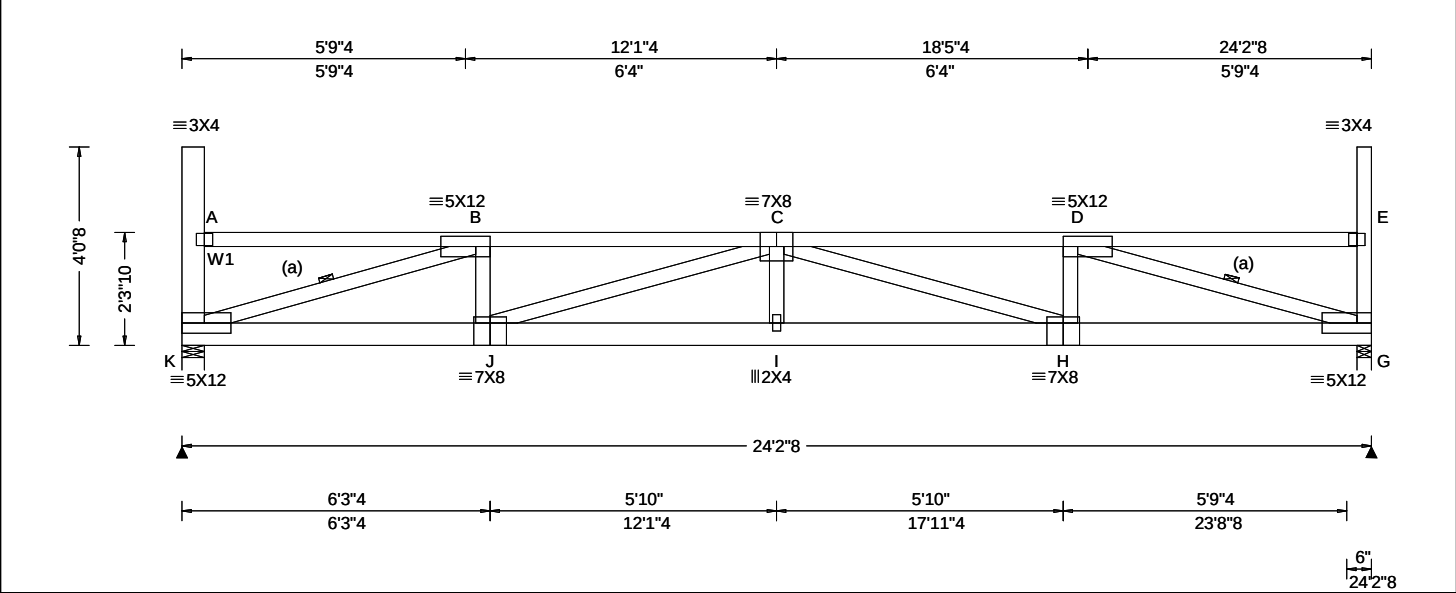
05/20/2022

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Building 12

SEQN: 37253 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T22	Cust: R 9316 JRef:1XIP93160003 T174 DrwNo: 140.22.1624.55133 / PPH 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.97 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.289 I 999 360 VERT(CL): 0.524 I 554 240 HORZ(LL): 0.049 G - - HORZ(TL): 0.089 G - - Creep Factor: 2.0 Max TC CSI: 0.676 Max BC CSI: 0.372 Max Web CSI: 0.858 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1587 /- /- /732 /84 /129 G 1599 /- /- /737 /86 /- Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 1.7 (Truss) G Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 211 -3989 C - D 212 -3997

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x6 DF-L 2400f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



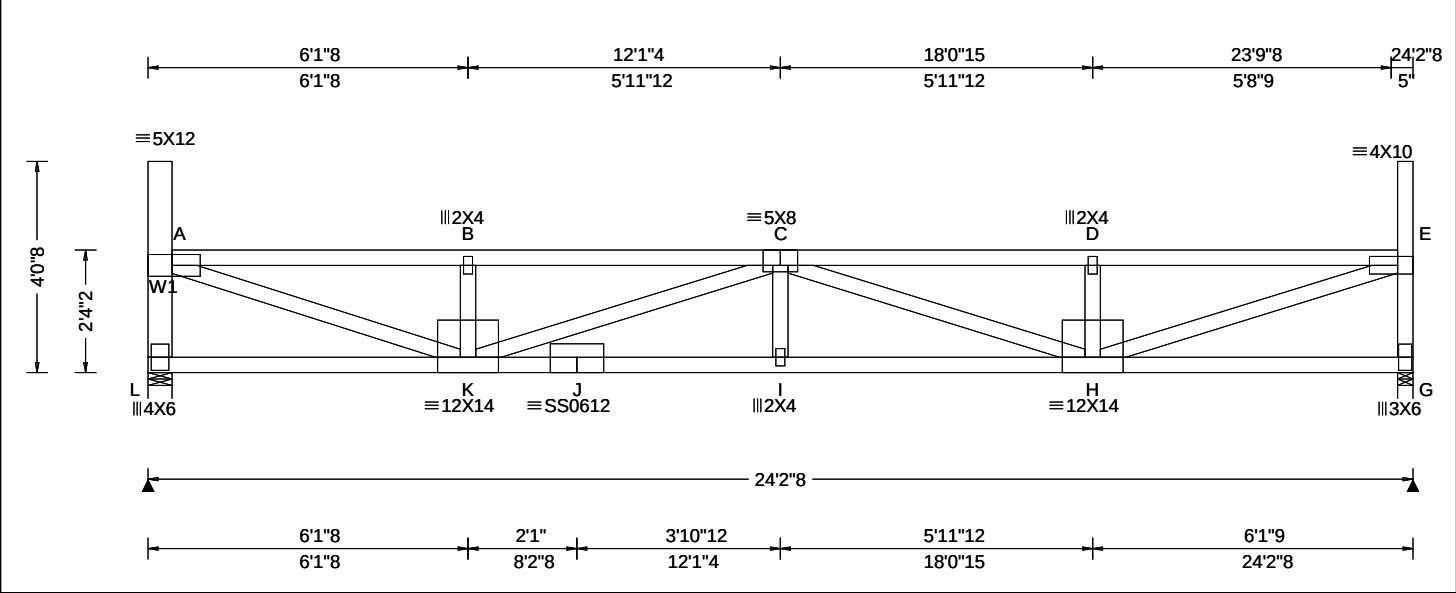
05/20/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37178 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T23	Cust: R 9316 JRef:1XIP93160003 T184 DrwNo: 140.22.1622.47795 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.318 I 914 360 VERT(CL): 0.591 I 491 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.100 A - - Creep Factor: 2.0 Max TC CSI: 0.862 Max BC CSI: 0.651 Max Web CSI: 0.924 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /85 /132 G 1553 /- /- /737 /87 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 209 -3686 C - D 209 -3691 B - C 209 -3681 D - E 209 -3696

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.70 25.57 5.57
23.92 0.00 23.46 1.70 25.57 5.57
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

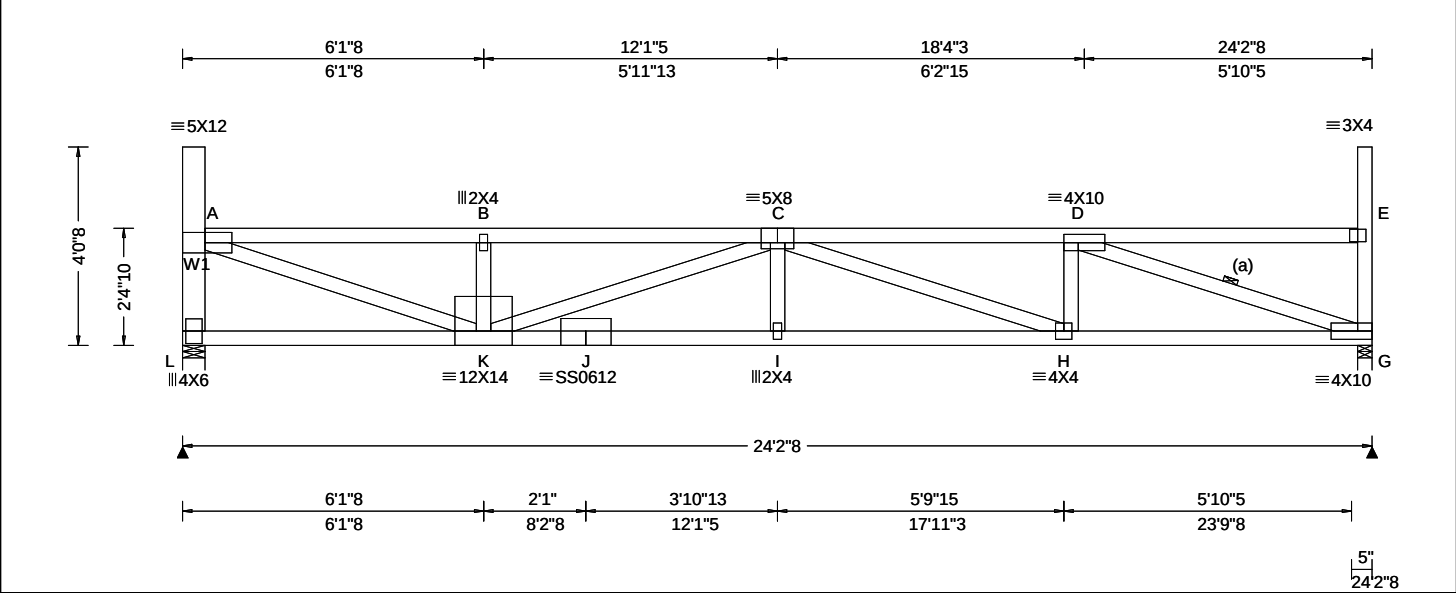


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Building 12

SEQN: 37179 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T24	Cust: R 9316 JRef:1XIP93160003 T176 DrwNo: 140.22.1622.48057 / NDW 05/20/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.298 I 973 360 VERT(CL): 0.555 I 523 240 HORZ(LL): 0.054 G - - HORZ(TL): 0.100 G - - Creep Factor: 2.0 Max TC CSI: 0.822 Max BC CSI: 0.647 Max Web CSI: 0.890 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs) <table><tr><th colspan="3">Gravity</th><th colspan="3">Non-Gravity</th></tr><tr><th>Loc</th><th>R+ / R-</th><th>/ Rh</th><th>/ Rw</th><th>/ U</th><th>/ RL</th></tr><tr><td>L</td><td>1542</td><td>/- /-</td><td>/732</td><td>/85</td><td>/131</td></tr><tr><td>G</td><td>1553</td><td>/- /-</td><td>/737</td><td>/87</td><td>/-</td></tr></table> Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. <table><tr><td>A - B</td><td>206 - 3615</td><td>C - D</td><td>202 - 3649</td></tr><tr><td>B - C</td><td>205 - 3610</td><td></td><td></td></tr></table>						Gravity			Non-Gravity			Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	L	1542	/- /-	/732	/85	/131	G	1553	/- /-	/737	/87	/-	A - B	206 - 3615	C - D	202 - 3649	B - C	205 - 3610		
	Gravity			Non-Gravity																																					
	Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL																																			
	L	1542	/- /-	/732	/85	/131																																			
	G	1553	/- /-	/737	/87	/-																																			
	A - B	206 - 3615	C - D	202 - 3649																																					
	B - C	205 - 3610																																							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.66 24.19 5.83
23.92 0.00 23.46 1.66 24.19 5.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



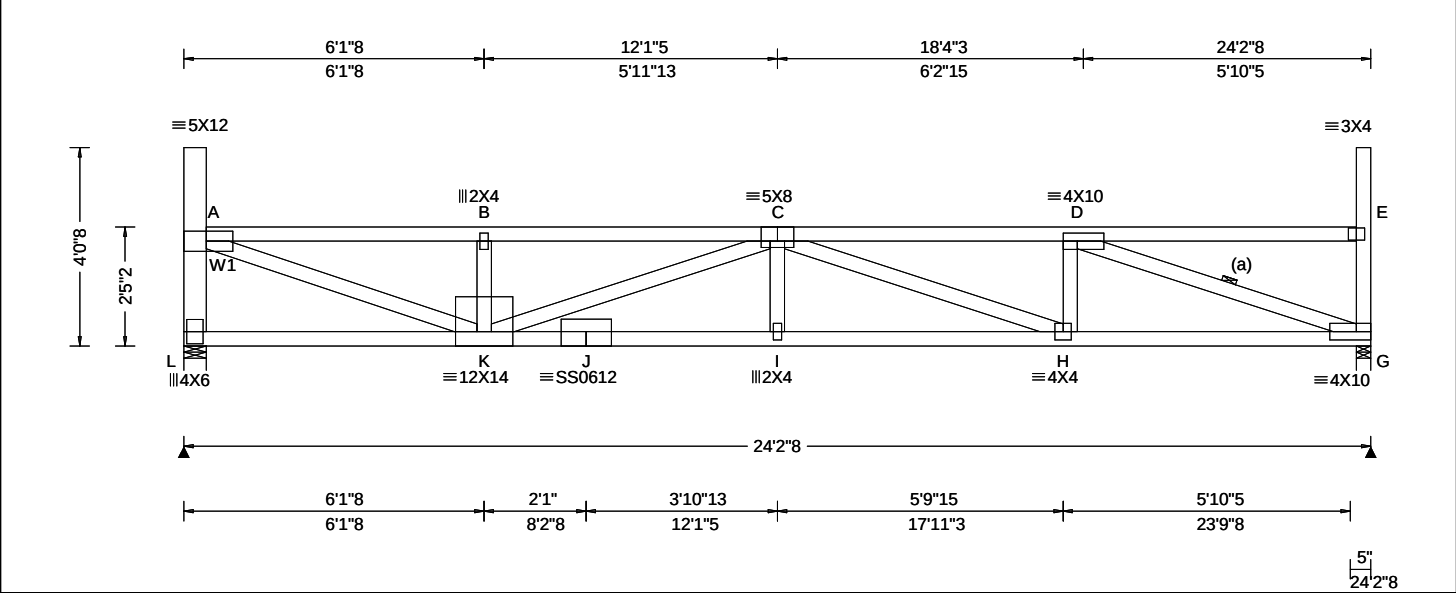
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37180 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T25	Cust: R 9316 JRef:1XIP93160003 T172 DrwNo: 140.22.1622.46426 / NDW 05/20/2022
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Loading Criteria (psf)	TCLL: 20.00	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.287 I 999 360 VERT(CL): 0.534 I 543 240 HORZ(LL): 0.053 G - - HORZ(TL): 0.098 G - - Creep Factor: 2.0 Max TC CSI: 0.793 Max BC CSI: 0.641 Max Web CSI: 0.875 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
	TCDL: 15.00				Gravity			Non-Gravity			
	BCLL: 15.00				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCDL: 15.00				L	1542	/-	/-	/732	/85	/129
	Des Ld: 65.00				G	1553	/-	/-	/737	/87	/-
	NCBCLL: 0.00				Wind reactions based on MWFRS						
	Soffit: 2.00				L Brg Wid = 5.5		Min Req = 2.0 (Truss)				
	Load Duration: 1.15				G Brg Wid = 3.5		Min Req = 2.0 (Truss)				
	Spacing: 24.0 "				Bearings L & G are a rigid surface.						
					Members not listed have forces less than 375#						
	Maximum Top Chord Forces Per Ply (lbs)										
	Chords		Tens.Comp.		Chords		Tens. Comp.				
	A - B	202	- 3547	C - D	198	- 3579					
	B - C	201	- 3542								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.61	22.80 5.50
	23.92	0.00	23.46	1.61	22.80 5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



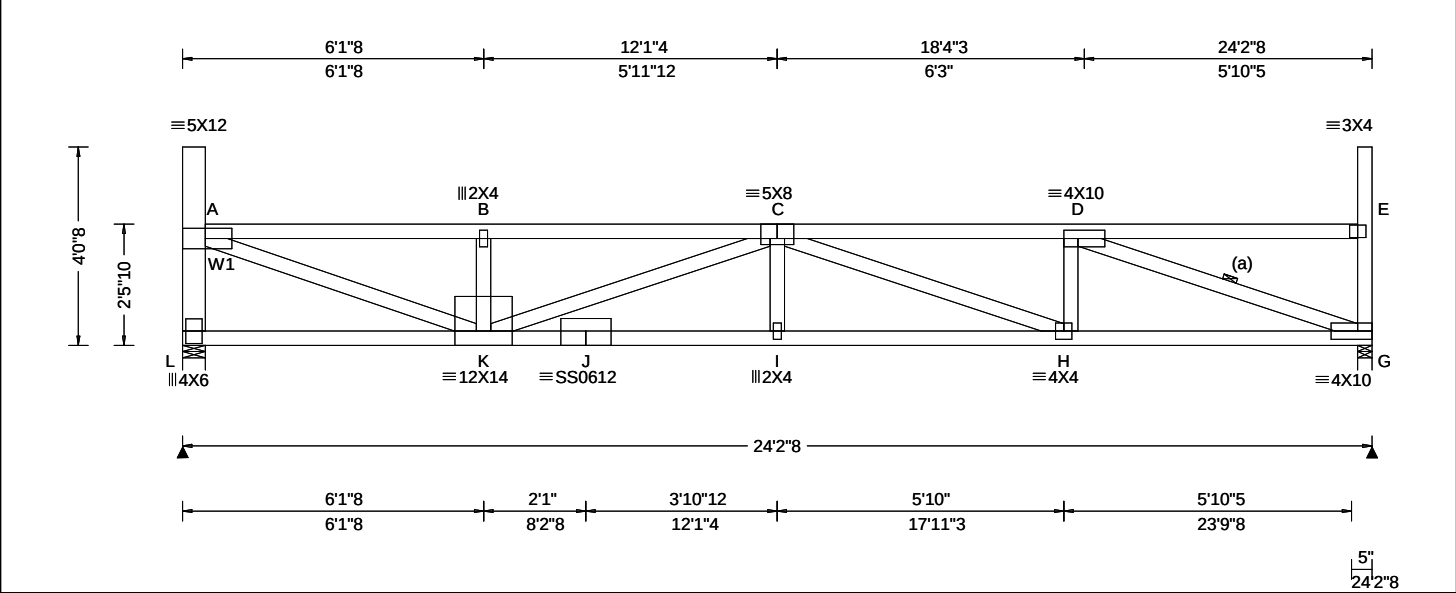
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Building 12

SEQN: 37181 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T26	Cust: R 9316 JRef:1XIP93160003 T173 DrwNo: 140.22.1622.46509 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.277 I 999 360 VERT(CL): 0.515 I 563 240 HORZ(LL): 0.052 G - - HORZ(TL): 0.096 G - - Creep Factor: 2.0 Max TC CSI: 0.754 Max BC CSI: 0.635 Max Web CSI: 0.860 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /86 /128 G 1553 /- /- /737 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 199 -3480 C - D 195 -3512 B - C 198 -3475

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



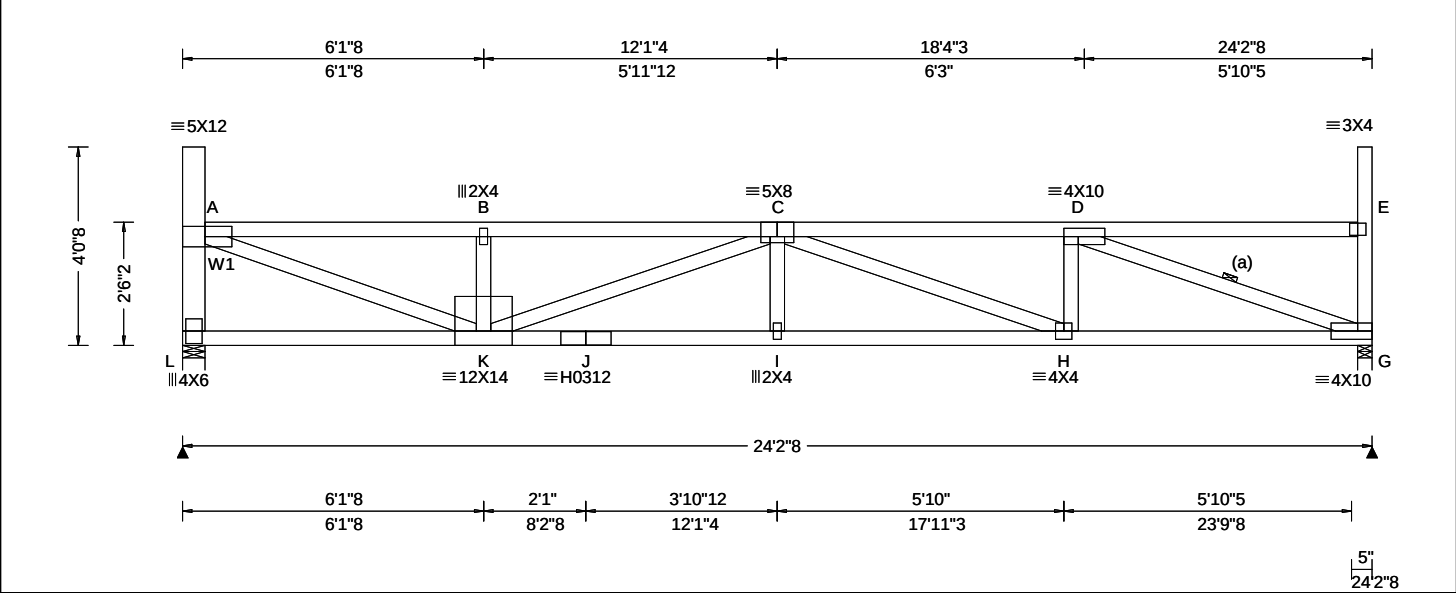
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Building 12

SEQN: 37182 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T27	Cust: R 9316 JRef:1XIP93160003 T157 DrwNo: 140.22.1622.45991 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.18 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.268 I 999 360 VERT(CL): 0.497 I 584 240 HORZ(LL): 0.051 G - - HORZ(TL): 0.094 G - - Creep Factor: 2.0 Max TC CSI: 0.719 Max BC CSI: 0.629 Max Web CSI: 0.846 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /86 /127 G 1553 /- /- /737 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 196 - 3416 C - D 192 - 3448 B - C 195 - 3412

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



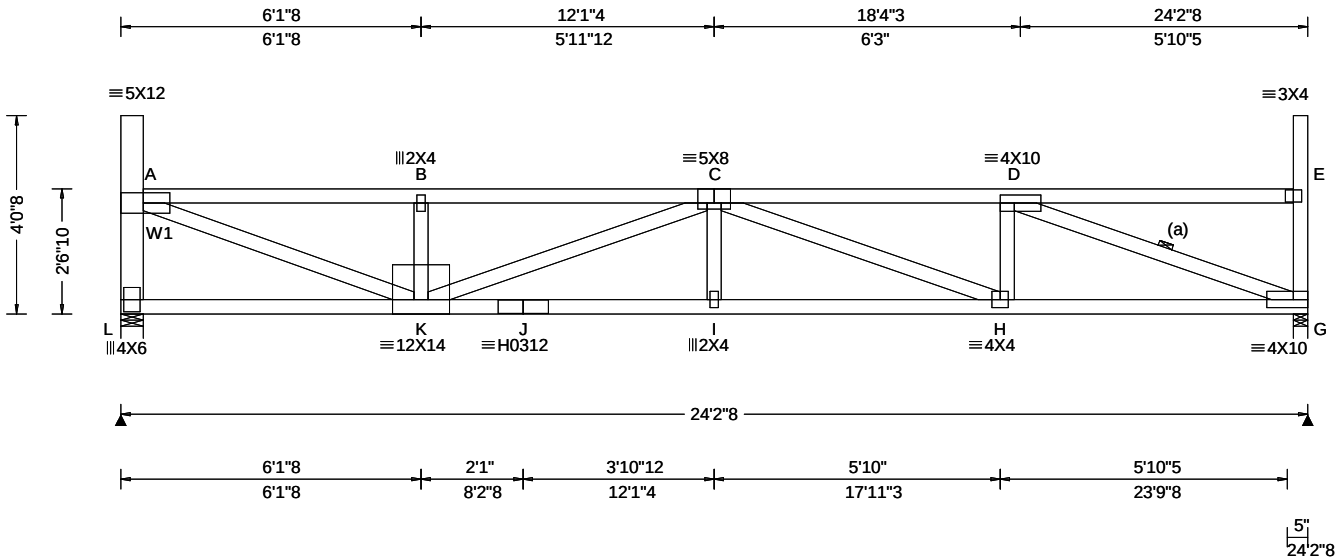
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Building 12

SEQN: 37183 /	FLAT	Ply: 1	Job Number: JB-220696	Cust: R 9316 JRef:1XFP93160003 T181
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 140.22.1622.47535
			Truss Label: T28	/ NDW 05/20/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.258 I 999 360	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 15.00	Enclosure: Closed	Lur: - Cs: 1.00	VERT(CL): 0.480 I 604 240	L 1542 /- /- /731 /86 /126
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.050 G - -	G 1553 /- /- /736 /88 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.093 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.22 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 5.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.687	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.623	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.832	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			A - B 193 - 3355 C - D 189 - 3386
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

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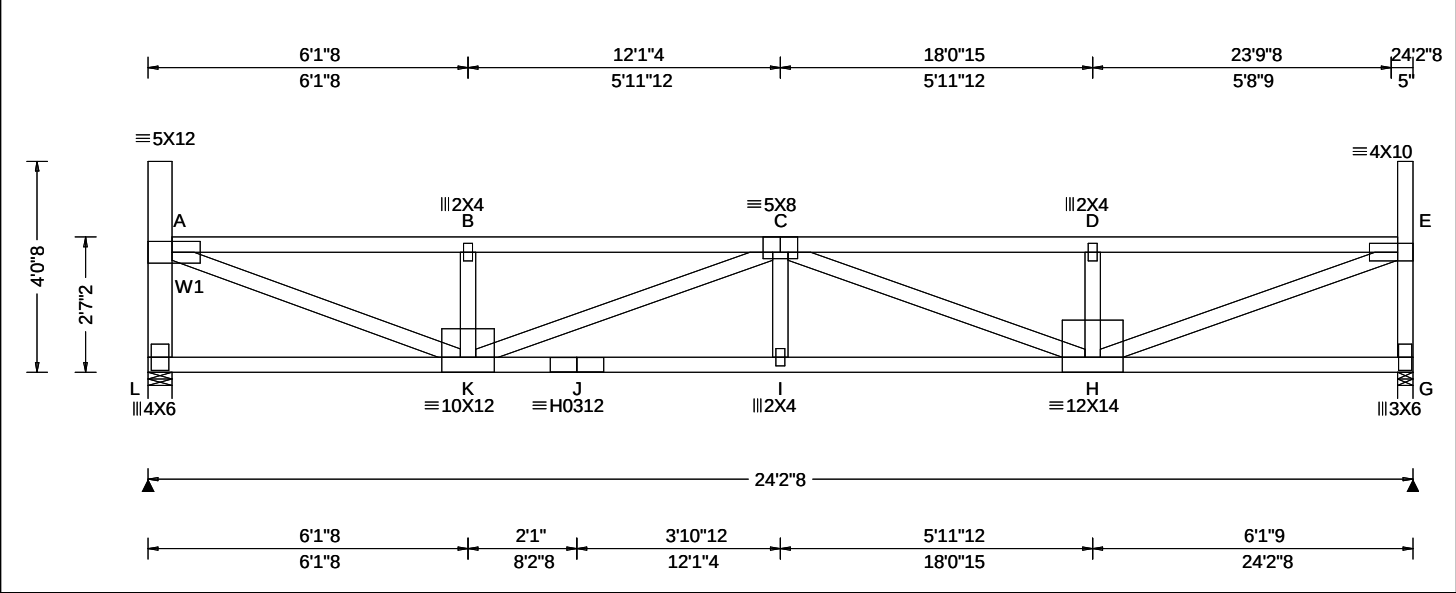
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37184 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T29	Cust: R 9316 JRef:1XIP93160003 T182 DrwNo: 140.22.1622.47313 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.476 I 610 240 HORZ(LL): 0.049 A - - HORZ(TL): 0.090 A - - Creep Factor: 2.0 Max TC CSI: 0.694 Max BC CSI: 0.608 Max Web CSI: 0.836 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /86 /125 G 1553 /- /- /736 /88 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 190 -3295 C - D 189 -3299 B - C 189 -3291 D - E 190 -3304

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.45 17.27 4.16
23.92 0.00 23.46 1.45 17.27 4.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

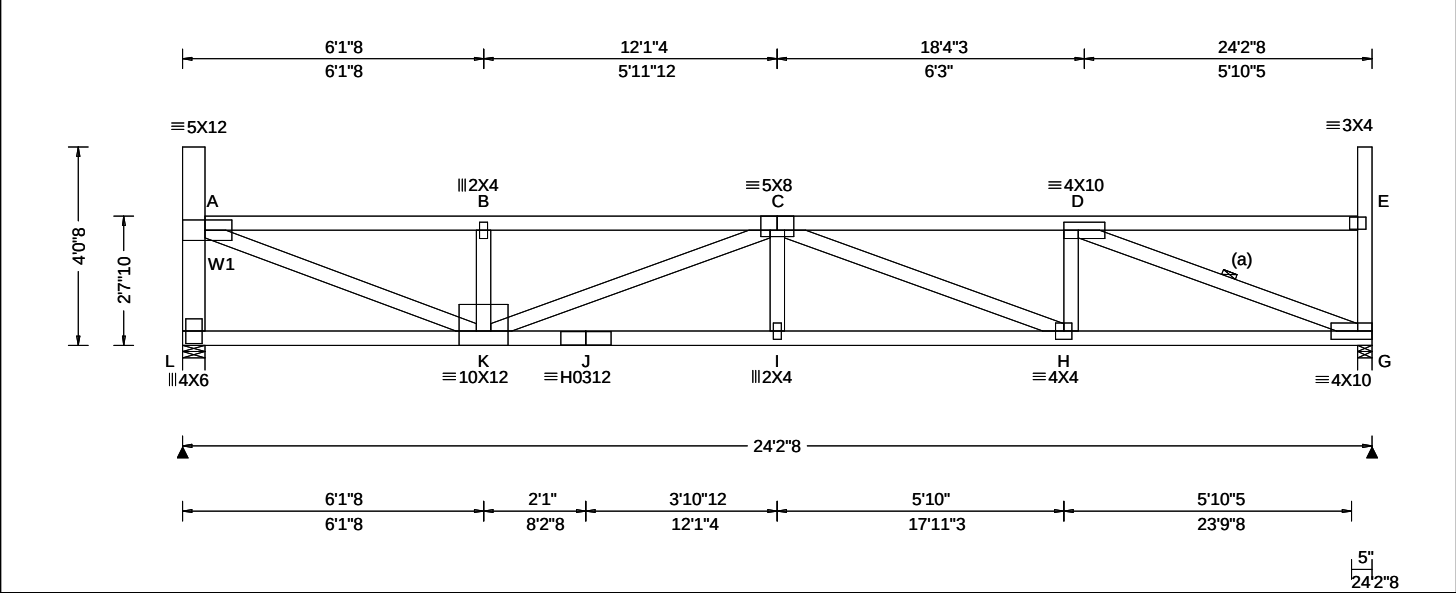
Additional Notes
Truss must be installed as shown with top chord up.



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Building 12

SEQN: 37185 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T30	Cust: R 9316 JRef:1XIP93160003 T178 DrwNo: 140.22.1622.45544 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.242 I 999 360 VERT(CL): 0.449 I 646 240 HORZ(LL): 0.048 G - - HORZ(TL): 0.089 G - - Creep Factor: 2.0 Max TC CSI: 0.649 Max BC CSI: 0.612 Max Web CSI: 0.806 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /86 /123 G 1553 /- /- /736 /88 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 187 - 3238 C - D 183 - 3267 B - C 186 - 3233

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

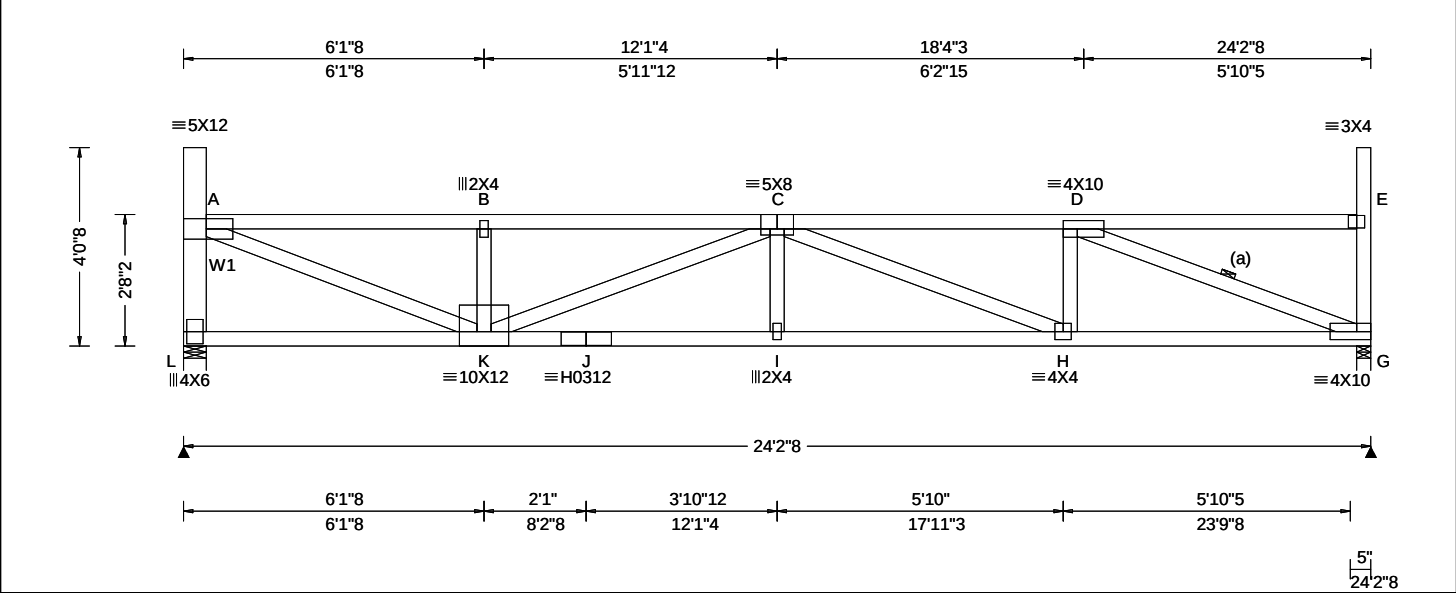
Truss must be installed as shown with top chord up.



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 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025		

Building 12

SEQN: 37186 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T31	Cust: R 9316 JRef:1XIP93160003 T185 DrwNo: 140.22.1622.46164 / NDW 05/20/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.234 I 999 360 VERT(CL): 0.435 I 668 240 HORZ(LL): 0.047 G - - HORZ(TL): 0.088 G - - Creep Factor: 2.0 Max TC CSI: 0.637 Max BC CSI: 0.606 Max Web CSI: 0.794 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
	L	1542	/-	/-	/731	/86	/122			
	G	1553	/-	/-	/736	/88	/-			
	Wind reactions based on MWFRS									
	L Brg Wid = 5.5 Min Req = 2.0 (Truss)									
	G Brg Wid = 3.5 Min Req = 2.0 (Truss)									
	Bearings L & G are a rigid surface.									
	Members not listed have forces less than 375#									
Maximum Top Chord Forces Per Ply (lbs)										
Chords			Tens.Comp.		Chords			Tens. Comp.		
A - B	184 - 3183		C - D		180		- 3211			
B - C	192 - 3178									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.36 14.50 3.50
23.92 0.00 23.46 1.36 14.50 3.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



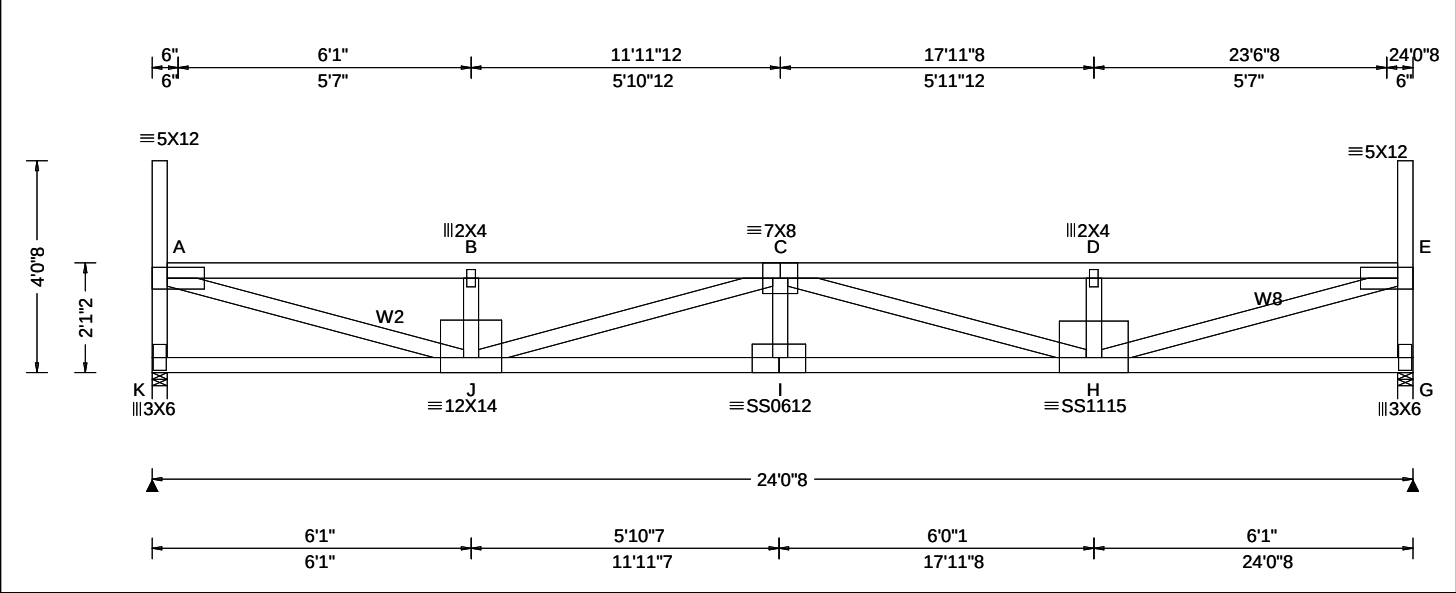
05/20/2022

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Building 12

SEQN: 37187 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T33	Cust: R 9316 JRef:1XIP93160003 T191 DrwNo: 140.22.1622.46621 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.76 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.380 I 759 360 VERT(CL): 0.706 I 408 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.110 A - - Creep Factor: 2.0 Max TC CSI: 0.932 Max BC CSI: 0.715 Max Web CSI: 0.844 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /733 /86 /139 G 1542 /- /- /733 /86 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 255 - 4139 C - D 254 - 4138 B - C 254 - 4133 D - E 255 - 4143

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.95 33.87 4.20
23.75 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



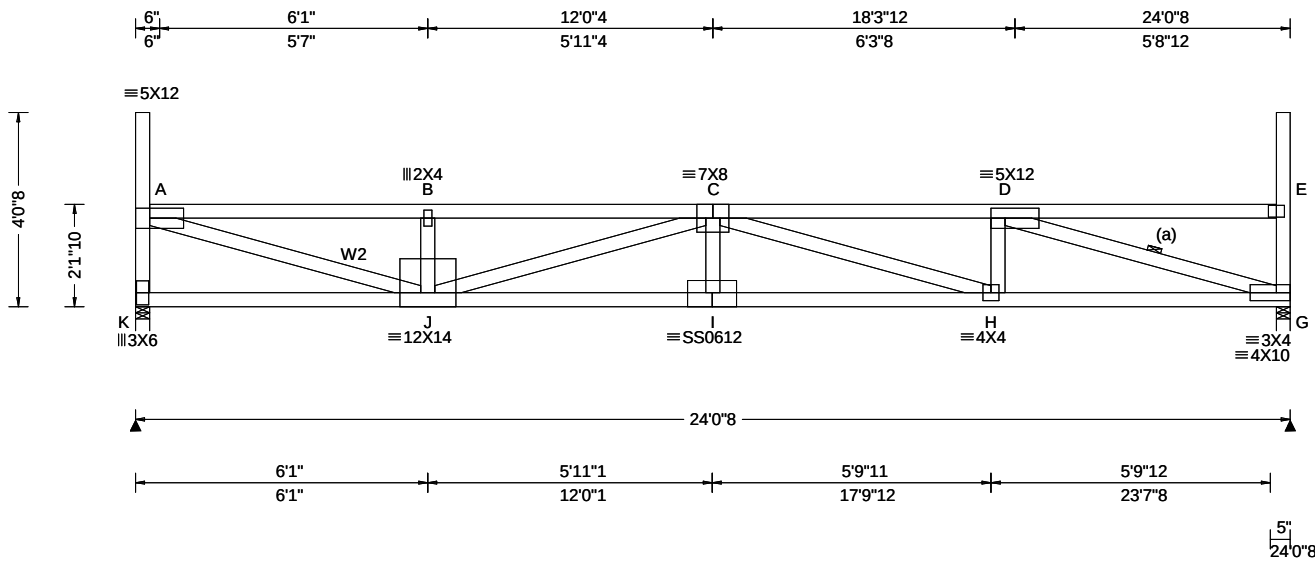
05/20/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37188 /	FLAT	Ply: 1	Job Number: JB-220696	Cust: R 9316 JRef:1XFP93160003 T200
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 140.22.1622.47864
			Truss Label: T34	/ NDW 05/20/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	GravityNon-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4Ce: 1.0	VERT(LL): 0.363 I 795 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lur: -Cs: 1.00	VERT(CL): 0.674 I 428 240	K 1542 /- /- /733 /86 /138
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.059 G - -	G 1542 /- /- /733 /86 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.110 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.80 ft	Building Code:	Creep Factor: 2.0	K Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.916	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.703	Bearings K & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.849	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	A - B 250 -4051 C - D 247 -4073
				B - C 240 -4046

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

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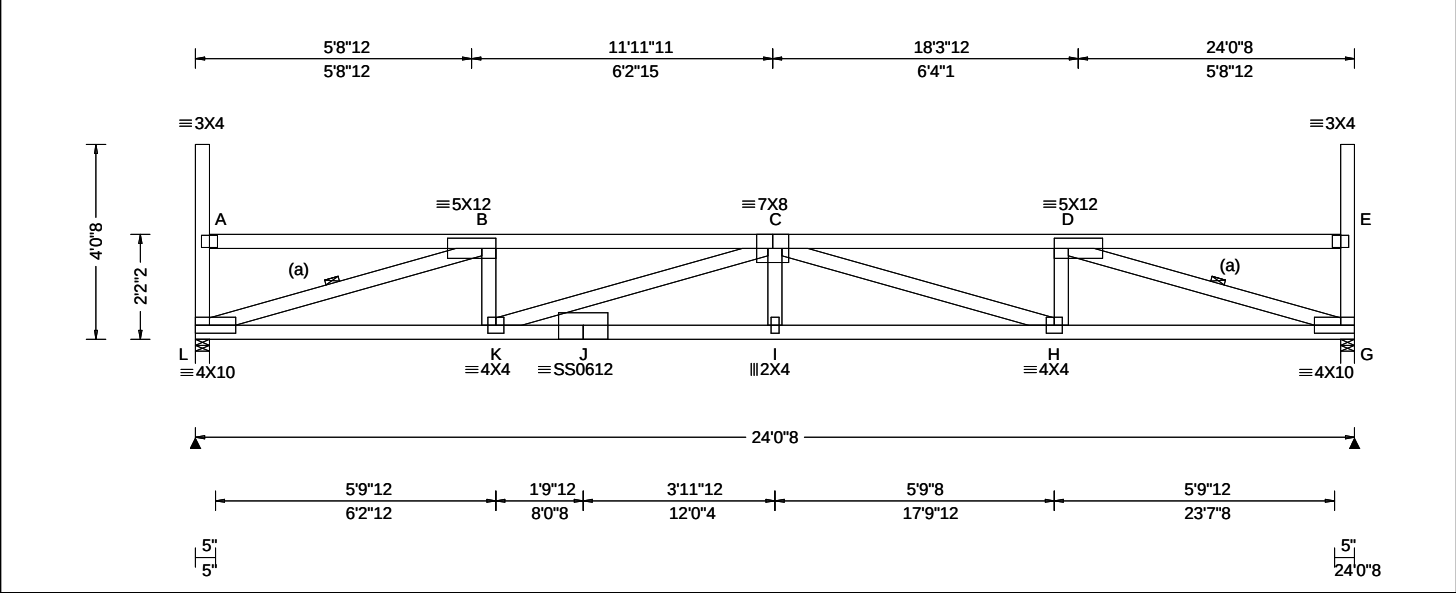
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37189 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T35	Cust: R 9316 JRef:1XIP93160003 T205 DrwNo: 140.22.1622.45699 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.84 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.346 I 833 360 VERT(CL): 0.643 I 448 240 HORZ(LL): 0.073 G - - HORZ(TL): 0.136 G - - Creep Factor: 2.0 Max TC CSI: 0.679 Max BC CSI: 0.683 Max Web CSI: 0.833 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1541 /- /- /732 /86 /136 G 1541 /- /- /732 /86 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 240 -3982 C - D 240 -3981

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3864 -352 I - H 5103 -310 K - J 5103 -310 H - G 3864 -209 J - I 5103 -310
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Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 241 -4000 C - H 134 -1180 B - K 768 -1 H - D 767 -1 K - C 136 -1179 D - G 240 -3999
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.86 31.10 4.58 23.75 0.00 23.46 1.86 31.10 4.58 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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Deflection Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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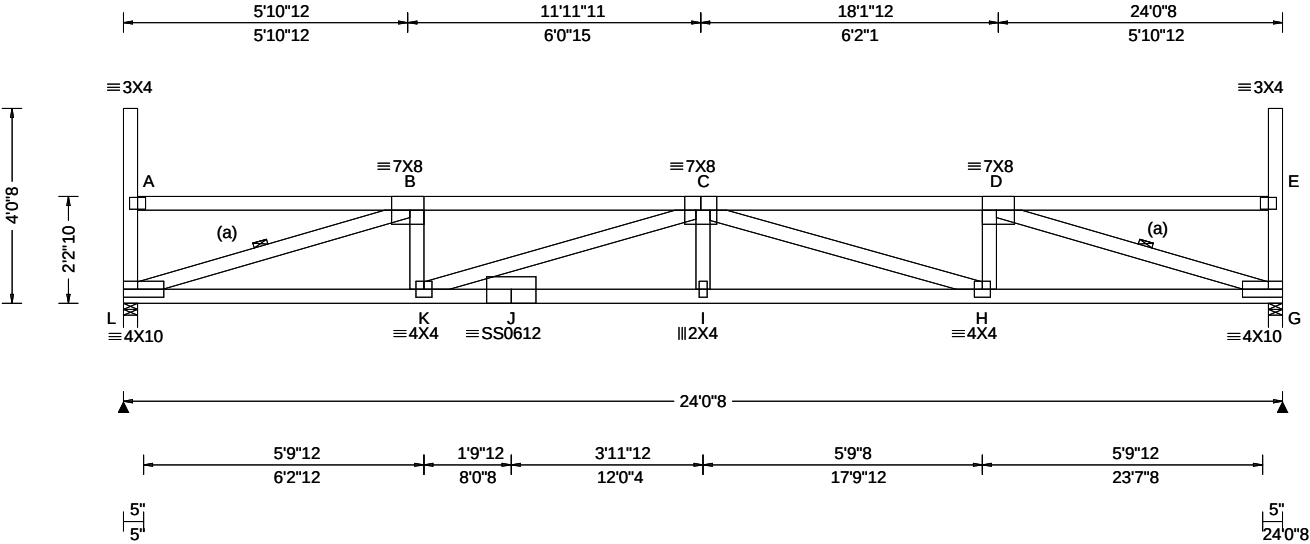
Additional Notes Truss must be installed as shown with top chord up.
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Building 12

SEQN: 37190 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T36	Cust: R 9316 JRef:1XFP93160003 T213 DrwNo: 140.22.1622.47147 / NDW 05/20/2022
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Loading Criteria (psf)	TCLL: 20.00	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.89 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.332 I 868 360 VERT(CL): 0.617 I 467 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.134 G - - Creep Factor: 2.0 Max TC CSI: 0.656 Max BC CSI: 0.673 Max Web CSI: 0.820 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
	TCDL: 15.00				Gravity			Non-Gravity			
	BCLL: 15.00				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCDL: 15.00				L	1541	/-	/-	/732	/86	/135
	Des Ld: 65.00				G	1541	/-	/-	/732	/86	/-
	NCBCLL: 0.00				Wind reactions based on MWFRS						
	Soffit: 2.00				L Brg Wid = 3.5		Min Req = 2.0 (Truss)				
	Load Duration: 1.15				G Brg Wid = 3.5		Min Req = 2.0 (Truss)				
	Spacing: 24.0 "				Bearings L & G are a rigid surface.						
					Members not listed have forces less than 375#						
	Maximum Top Chord Forces Per Ply (lbs)										
	Chords	Tens.Comp.	Chords	Tens. Comp.							
	B - C	236 - 3898	C - D	236 - 3897							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.82 29.72 4.79
23.75 0.00 23.46 1.82 29.72 4.79
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
L - K	3783 - 346	I - H	4994 - 305
K - J	4994 - 305	H - G	3782 - 207
J - I	4994 - 305		

Maximum Web Forces Per Ply (lbs)

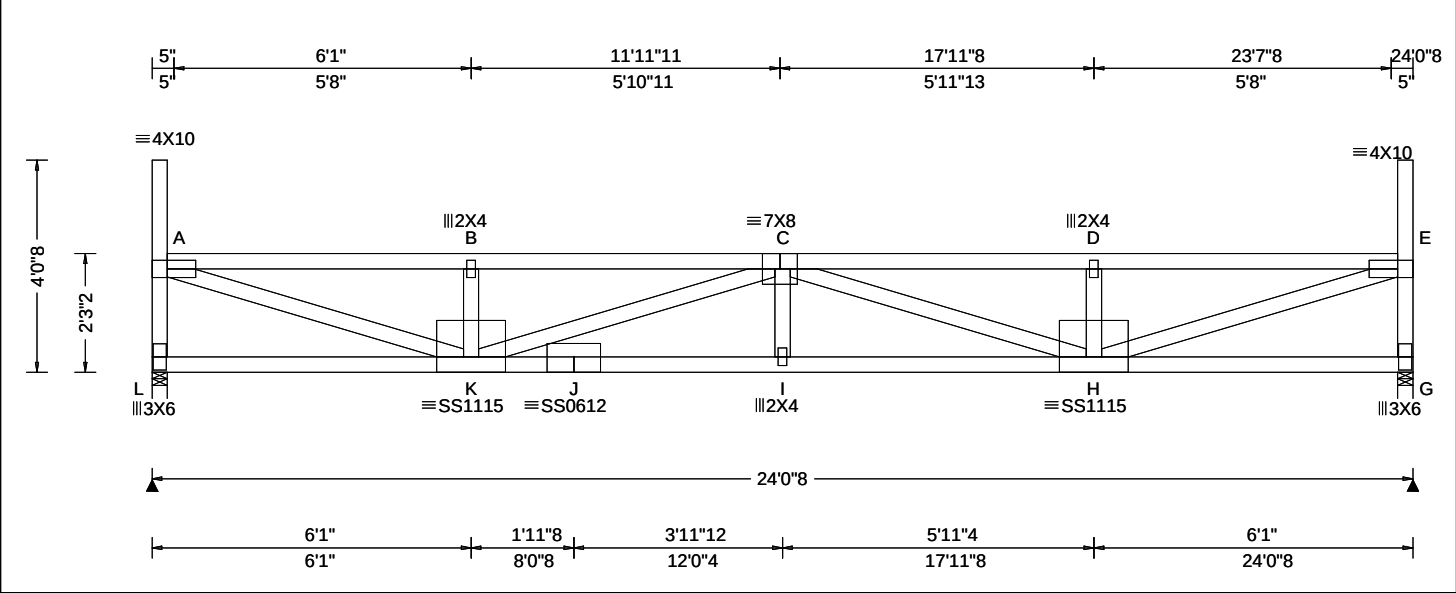
Webs	Tens.Comp.	Webs	Tens. Comp.
L - B	236 - 3924	C - H	131 - 1156
B - K	768 - 1	H - D	767 - 1
K - C	133 - 1155	D - G	236 - 3923

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Building 12

SEQN: 37191 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T37	Cust: R 9316 JRef:1XIP93160003 T204 DrwNo: 140.22.1622.47315 / NDW 05/20/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.336 I 859 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.624 I 462 240		L	1541	/-	/-	/732	/86	/134
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.054 A - -		G	1541	/-	/-	/732	/86	/-
Des Ld: 65.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS		HORZ(TL): 0.101 A - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 21.93 ft				Creep Factor: 2.0		L Brg Wid = 3.5 Min Req = 2.0 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.869		G Brg Wid = 3.5 Min Req = 2.0 (Truss)						
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.662		Bearings L & G are a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h				Max Web CSI: 0.945		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft						Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall: Any						Chords Tens.Comp. Chords Tens. Comp.						
		GCpi: 0.18						A - B 213 - 3791 C - D 212 - 3785						
		Wind Duration: 1.60				VIEW Ver: 21.02.00.1005.17		B - C 212 3786 D - E 213 3790						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.78 28.34 5.03
23.75 0.00 23.46 1.78 28.34 5.03
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

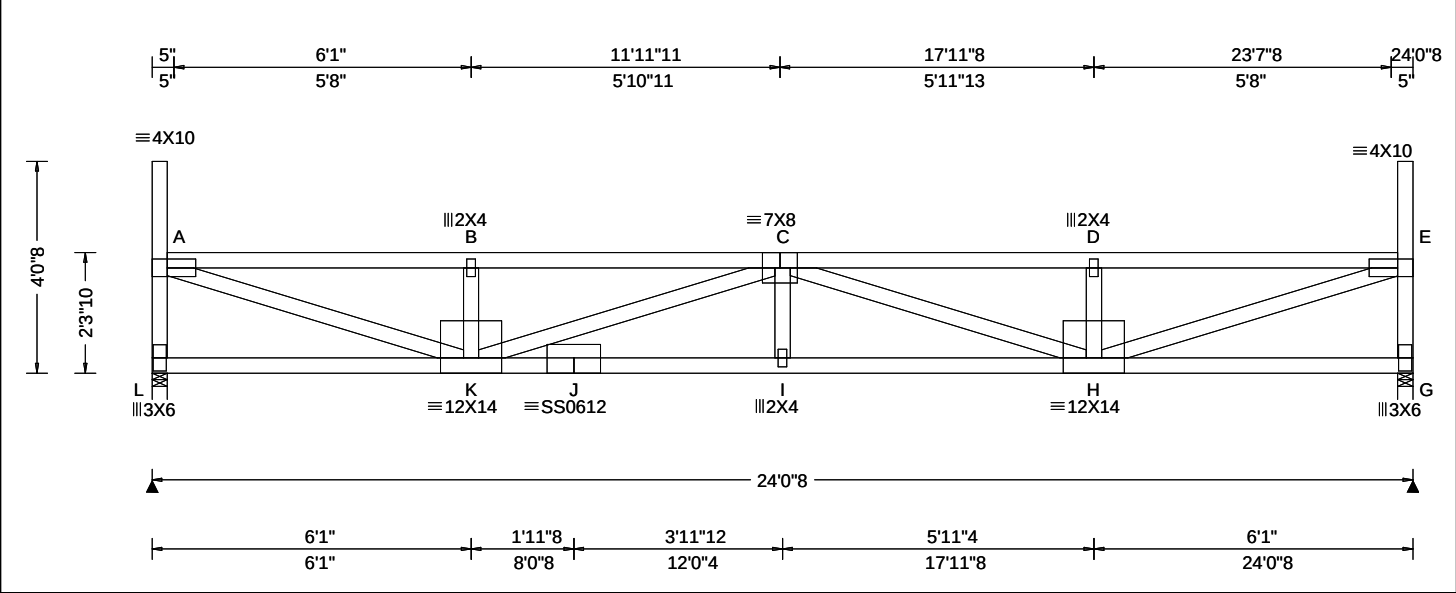


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Building 12

SEQN: 37192 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T38	Cust: R 9316 JRef:1XIP93160003 T209 DrwNo: 140.22.1622.47669 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.97 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.323 I 893 360 VERT(CL): 0.600 I 480 240 HORZ(LL): 0.053 A - - HORZ(TL): 0.099 A - - Creep Factor: 2.0 Max TC CSI: 0.854 Max BC CSI: 0.652 Max Web CSI: 0.928 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 -/- /- /732 /86 /133 G 1541 -/- /- /732 /86 -/ Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 209 -3715 C - D 208 -3709 B - C 208 -3710 D - E 209 -3714

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.74 26.95 5.28
23.75 0.00 23.46 1.74 26.95 5.28
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



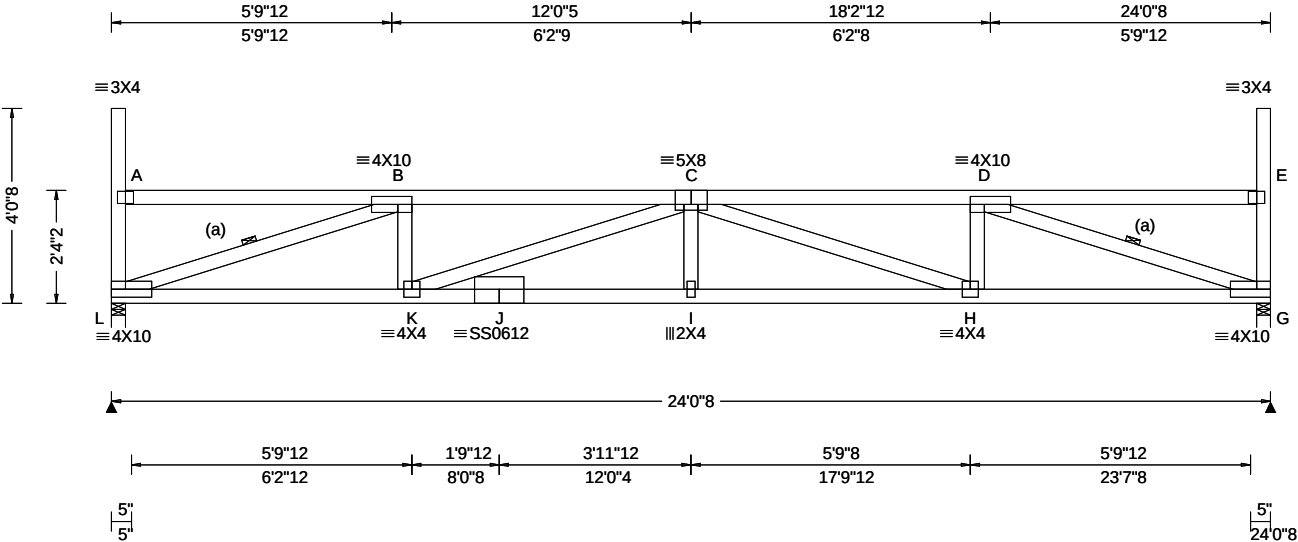
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Building 12

SEQN: 37193 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T39	Cust: R 9316 JRef:1XIP93160003 T199 DrwNo: 140.22.1622.47750 / NDW 05/20/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity			Non-Gravity				
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.296 I 976 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.549 I 525 240		L	1542	/-	/-	/732	/87	/132	
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.068 G - -		G	1542	/-	/-	/732	/87	/-	
Des Ld: 65.00		EXP: B Kzt: NA				HORZ(TL): 0.126 G - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height: 22.01 ft		Building Code:		Creep Factor: 2.0		L Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Soffit: 2.00		TCDL: 5.0 psf		IBC 2018		Max TC CSI: 0.598		G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration: 1.15		BCDL: 3.0 psf		TPI Std: 2014		Max BC CSI: 0.650		Bearings L & G are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h		Rep Fac: Yes		Max Web CSI: 0.783		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)				Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall: not in 14.50 ft		Plate Type(s):				Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCp: 0.18		WAVE, 18SS		VIEW Ver: 21.02.00.1005.17		B - C		202 -3671		C - D		202 -3670	
		Wind Duration: 1.60													

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) <table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>L - K</td><td>3563 -310</td><td>I - H</td><td>4703 -294</td></tr><tr><td>K - J</td><td>4703 -294</td><td>H - G</td><td>3562 -201</td></tr><tr><td>J - I</td><td>4703 -294</td><td></td><td></td></tr></table>	Chords	Tens.Comp.	Chords	Tens. Comp.	L - K	3563 -310	I - H	4703 -294	K - J	4703 -294	H - G	3562 -201	J - I	4703 -294																				
Chords	Tens.Comp.	Chords	Tens. Comp.																																
L - K	3563 -310	I - H	4703 -294																																
K - J	4703 -294	H - G	3562 -201																																
J - I	4703 -294																																		
Bracing (a) Continuous lateral restraint equally spaced on member.																																			
Loading Drifting snow load has been considered for only in plane loading as follows: <table><tr><th>Location</th><th>Lu1</th><th>Lu2</th><th>Height</th><th>Pd</th><th>W</th></tr><tr><td></td><td>0.29</td><td>0.00</td><td>23.46</td><td>1.70</td><td>25.57</td></tr><tr><td></td><td>23.75</td><td>0.00</td><td>23.46</td><td>1.70</td><td>25.57</td></tr></table> Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Location	Lu1	Lu2	Height	Pd	W		0.29	0.00	23.46	1.70	25.57		23.75	0.00	23.46	1.70	25.57	Maximum Web Forces Per Ply (lbs) <table><tr><th>Webs</th><th>Tens.Comp.</th><th>Webs</th><th>Tens. Comp.</th></tr><tr><td>L - B</td><td>226 -3721</td><td>C - H</td><td>115 -1096</td></tr><tr><td>B - K</td><td>769 0</td><td>H - D</td><td>769 0</td></tr><tr><td>K - C</td><td>117 -1095</td><td>D - G</td><td>226 -3719</td></tr></table>	Webs	Tens.Comp.	Webs	Tens. Comp.	L - B	226 -3721	C - H	115 -1096	B - K	769 0	H - D	769 0	K - C	117 -1095	D - G	226 -3719
Location	Lu1	Lu2	Height	Pd	W																														
	0.29	0.00	23.46	1.70	25.57																														
	23.75	0.00	23.46	1.70	25.57																														
Webs	Tens.Comp.	Webs	Tens. Comp.																																
L - B	226 -3721	C - H	115 -1096																																
B - K	769 0	H - D	769 0																																
K - C	117 -1095	D - G	226 -3719																																

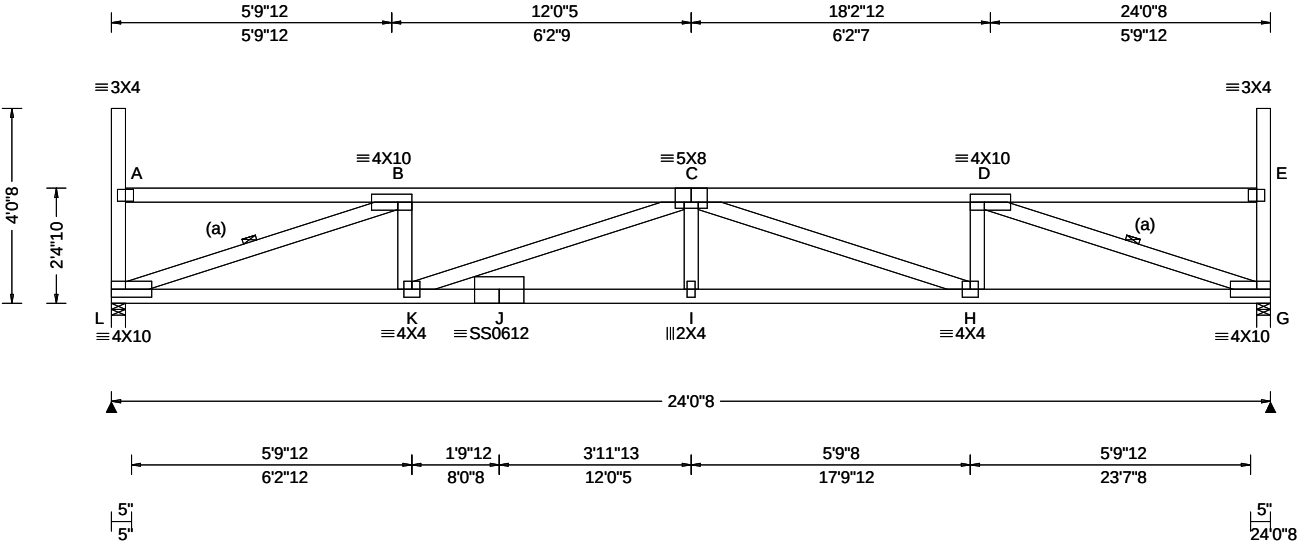


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Building 12

SEQN: 37194 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T40	Cust: R 9316 JRef:1XFP93160003 T211 DrwNo: 140.22.1622.46032 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.285 I 999 360 VERT(CL): 0.529 I 545 240 HORZ(LL): 0.066 G - - HORZ(TL): 0.123 G - - Creep Factor: 2.0 Max TC CSI: 0.583 Max BC CSI: 0.643 Max Web CSI: 0.772 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /87 /131 G 1542 /- /- /732 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -3600 C - D 199 -3598

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3494 -305 I - H 4611 -290 K - J 4611 -290 H - G 3492 -199 J - I 4611 -290
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Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 222 -3657 C - H 113 -1077 B - K 769 0 H - D 769 0 K - C 114 -1075 D - G 222 -3655
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.66 24.19 5.83 23.75 0.00 23.46 1.66 24.19 5.83 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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Deflection Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

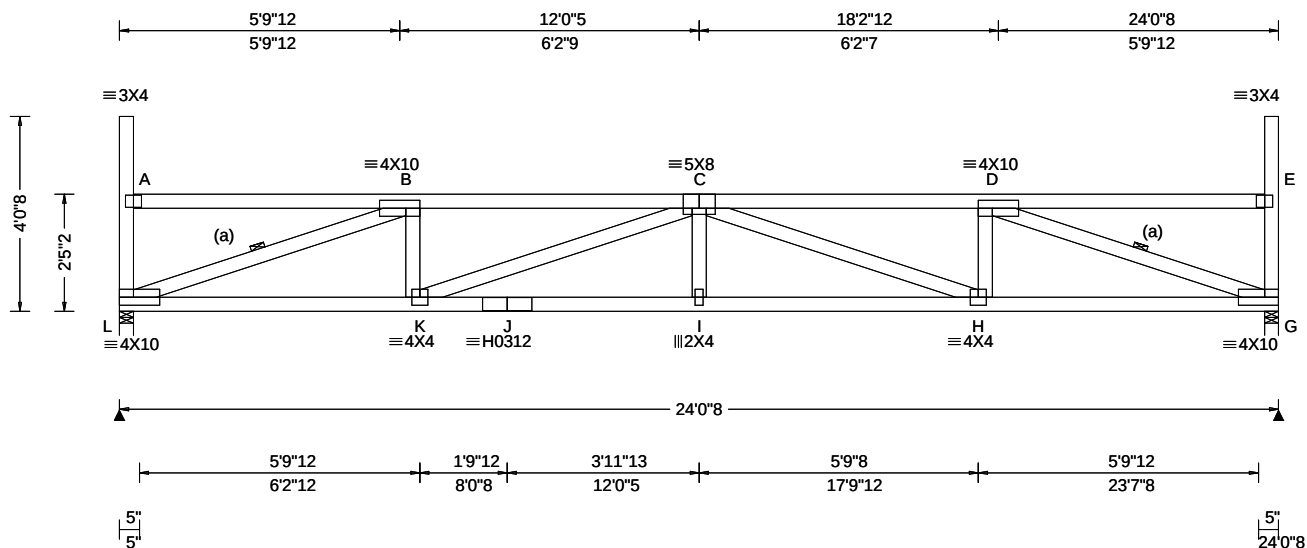
Additional Notes Truss must be installed as shown with top chord up.
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Building 12

SEQN: 37195 / FROM:	FLAT	Ply: 1 Qty: 2	Job Number: JB-220696 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T41	Cust: R 9316 JRef: 1XfP93160003 T201 DrwNo: 140.22.1622.47363 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.274 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.510 I 565 240	L 1542 /- /- /732 /87 /129
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.065 G - -	G 1542 /- /- /732 /87 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.121 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.09 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.568	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.637	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.761	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	WAVE, HS		
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17	B - C 195 - 3531 C - D 196 - 3530

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

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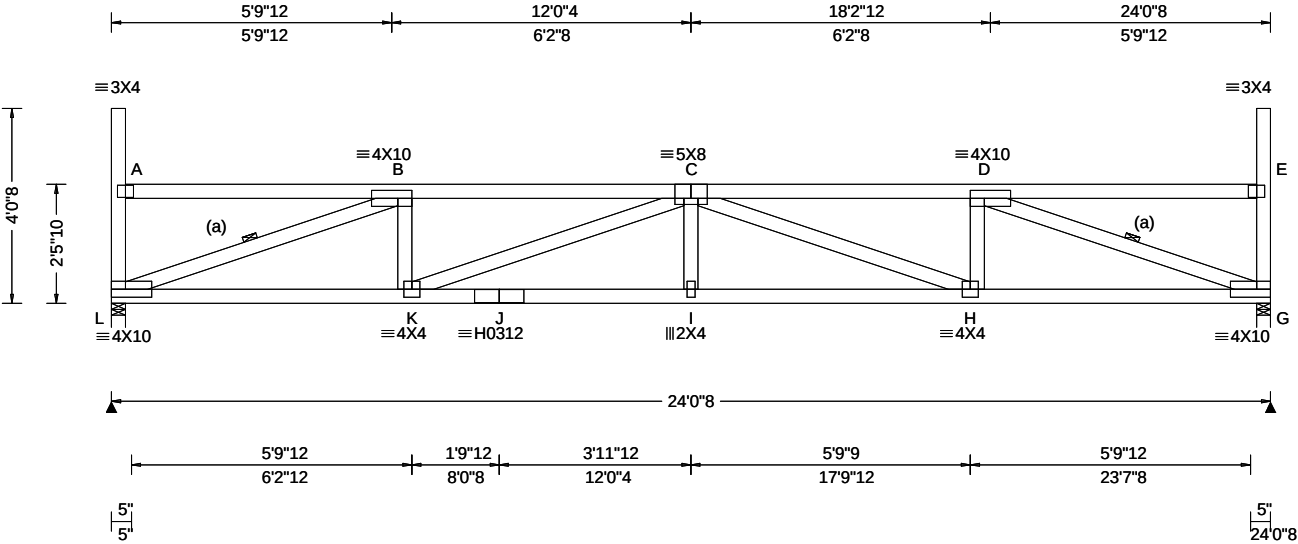


ALPINE
ANTRIM COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37196 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T42	Cust: R 9316 JRef:1XFP93160003 T195 DrwNo: 140.22.1622.48020 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.265 I 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.492 I 586 240	L	1542	/-	/-	/732	/87	/128
	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.064 G - -	G	1542	/-	/-	/732	/87	/-
	EXP: B Kzt: NA		HORZ(TL): 0.119 G - -	Wind reactions based on MWFRS						
	Mean Height: 22.14 ft		Creep Factor: 2.0	L	Brg Wid = 3.5	Min Req = 2.0	(Truss)			
	TCDL: 5.0 psf		Max TC CSI: 0.553	G	Brg Wid = 3.5	Min Req = 2.0	(Truss)			
	BCDL: 3.0 psf		Max BC CSI: 0.631	Bearings L & G are a rigid surface.						
	MWFRS Parallel Dist: h/2 to h		Max Web CSI: 0.751	Members not listed have forces less than 375#						
C&C Dist a: 3.00 ft			Maximum Top Chord Forces Per Ply (lbs)							
Loc. from endwall: Any			Chords	Tens.Comp.	Chords	Tens. Comp.				
GCpi: 0.18			B - C	192 - 3465	C - D	193 - 3464				
Wind Duration: 1.60										

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) <table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>L - K</td><td>3363 - 315</td><td>I - H</td><td>4437 - 282</td></tr><tr><td>K - J</td><td>4437 - 282</td><td>H - G</td><td>3362 - 195</td></tr><tr><td>J - I</td><td>4437 - 282</td><td></td><td></td></tr></table>	Chords	Tens.Comp.	Chords	Tens. Comp.	L - K	3363 - 315	I - H	4437 - 282	K - J	4437 - 282	H - G	3362 - 195	J - I	4437 - 282		
Chords	Tens.Comp.	Chords	Tens. Comp.														
L - K	3363 - 315	I - H	4437 - 282														
K - J	4437 - 282	H - G	3362 - 195														
J - I	4437 - 282																
Bracing																	

Bracing (a) Continuous lateral restraint equally spaced on member.							K - J	4437	-202	H - G	3302	-193
							J - I	4437	-282			
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.00 0.00 23.46 1.57 21.42 5.16	Maximum Web Forces Per Ply (lbs)											
	Webs						Tens.Comp.					
	L - B						215 - 3536					
	B - K						769 0					
	K - C						117 - 1038					

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.57 21.42 5.16
23.75 0.00 23.46 1.57 21.42 5.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

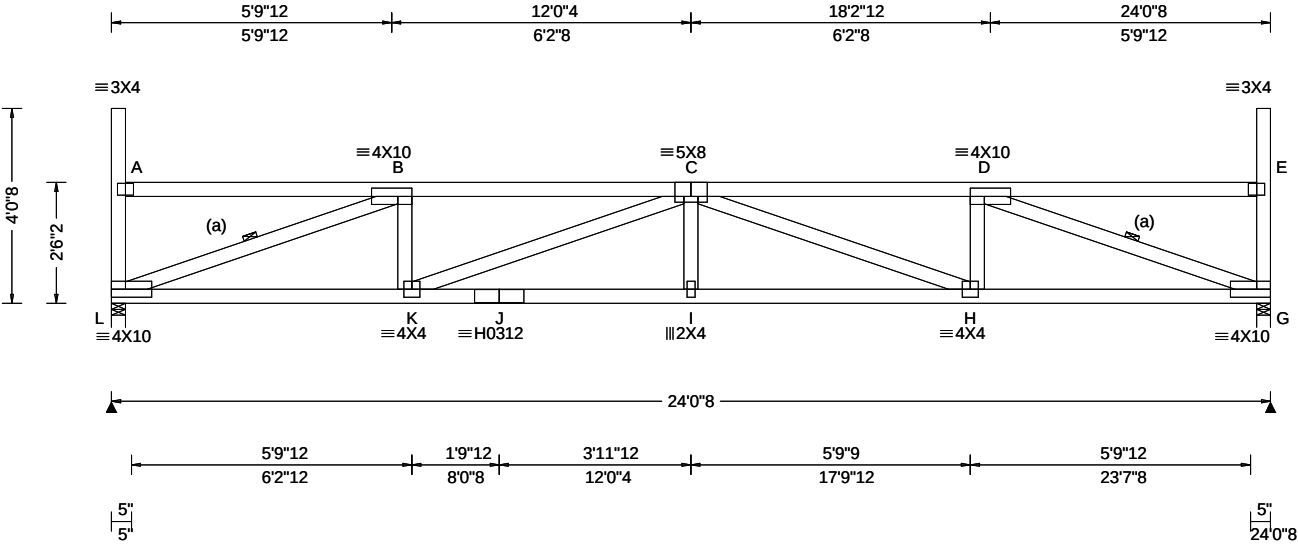


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Building 12

SEQN: 37197 / FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T43	Cust: R 9316 JRef:1XFP93160003 T198 DrwNo: 140.22.1622.46104 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity						
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00							
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15							
	Des Ld: 65.00	EXP: B Kzt: NA		L	1542	/-	/-	/732	/87	/127
	NCBCLL: 0.00	Mean Height: 22.18 ft		G	1542	/-	/-	/732	/87	/-
	Soffit: 2.00	TCDL: 5.0 psf	Building Code:	Wind reactions based on MWFRS						
	Load Duration: 1.15	BCDL: 3.0 psf	IBC 2018	L Brg Wid = 3.5 Min Req = 2.0 (Truss)						
	Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	G Brg Wid = 3.5 Min Req = 2.0 (Truss)						
	C&C Dist a: 3.00 ft	Rep Fac: Yes	Bearings L & G are a rigid surface.							
	Loc. from endwall: Any	FT/RT:20(0)/10(0)	Members not listed have forces less than 375#							
	GCpi: 0.18	Plate Type(s):	Maximum Top Chord Forces Per Ply (lbs)							
	Wind Duration: 1.60	WAVE, HS	Chords Tens.Comp. Chords Tens. Comp.							
			VIEW Ver: 21.02.00.1005.17							
			B - C 211 - 3401 C - D 211 - 3400							

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) <table><tr><th>Chords</th><th>Tens.</th><th>Comp.</th><th>Chords</th><th>Tens.</th><th>Comp.</th></tr><tr><td>L - K</td><td>3301</td><td>- 310</td><td>I - H</td><td>4354</td><td>- 278</td></tr><tr><td>K - J</td><td>4354</td><td>- 278</td><td>H - G</td><td>3300</td><td>- 192</td></tr><tr><td>J - I</td><td>4354</td><td>- 278</td><td></td><td></td><td></td></tr></table>						Chords	Tens.	Comp.	Chords	Tens.	Comp.	L - K	3301	- 310	I - H	4354	- 278	K - J	4354	- 278	H - G	3300	- 192	J - I	4354	- 278																					
Chords	Tens.	Comp.	Chords	Tens.	Comp.																																											
L - K	3301	- 310	I - H	4354	- 278																																											
K - J	4354	- 278	H - G	3300	- 192																																											
J - I	4354	- 278																																														
Bracing (a) Continuous lateral restraint equally spaced on member.																																																
Loading Drifting snow load has been considered for only in plane loading as follows: <table><tr><th>Location</th><th>Lu1</th><th>Lu2</th><th>Height</th><th>Pd</th><th>W</th></tr><tr><td></td><td>0.29</td><td>0.00</td><td>23.46</td><td>1.53</td><td>20.04 4.83</td></tr><tr><td></td><td>23.75</td><td>0.00</td><td>23.46</td><td>1.53</td><td>20.04 4.83</td></tr></table>	Location	Lu1	Lu2	Height	Pd	W		0.29	0.00	23.46	1.53	20.04 4.83		23.75	0.00	23.46	1.53	20.04 4.83	Maximum Web Forces Per Ply (lbs) <table><tr><th>Webs</th><th>Tens.</th><th>Comp.</th><th>Webs</th><th>Tens.</th><th>Comp.</th></tr><tr><td>L - B</td><td>212</td><td>- 3479</td><td>C - H</td><td>113</td><td>- 1022</td></tr><tr><td>B - K</td><td>769</td><td>0</td><td>H - D</td><td>769</td><td>0</td></tr><tr><td>K - C</td><td>114</td><td>- 1021</td><td>D - G</td><td>212</td><td>- 3478</td></tr></table>						Webs	Tens.	Comp.	Webs	Tens.	Comp.	L - B	212	- 3479	C - H	113	- 1022	B - K	769	0	H - D	769	0	K - C	114	- 1021	D - G	212	- 3478
Location	Lu1	Lu2	Height	Pd	W																																											
	0.29	0.00	23.46	1.53	20.04 4.83																																											
	23.75	0.00	23.46	1.53	20.04 4.83																																											
Webs	Tens.	Comp.	Webs	Tens.	Comp.																																											
L - B	212	- 3479	C - H	113	- 1022																																											
B - K	769	0	H - D	769	0																																											
K - C	114	- 1021	D - G	212	- 3478																																											



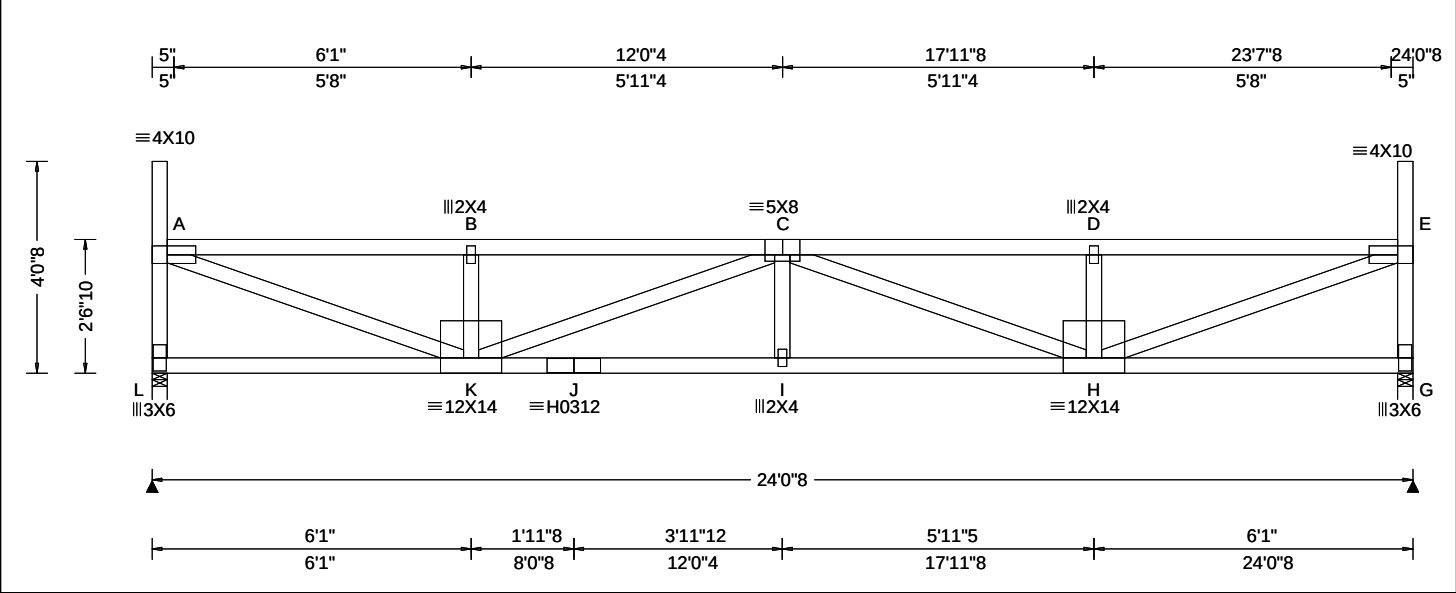
05/20/2022

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Building 12

SEQN: 37198 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T44	Cust: R 9316 JRef:1XIP93160003 T202 DrwNo: 140.22.1622.48287 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity							
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	BCCL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(LL): 0.260 I 999 360	L	1542	/-	/-	/732	/87	/126
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	VERT(CL): 0.482 I 597 240	G	1542	/-	/-	/732	/87	/-
Des Ld: 65.00	EXP: B Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	HORZ(LL): 0.048 A - -	Wind reactions based on MWFRS							
NCBCLL: 0.00	Mean Height: 22.22 ft		HORZ(TL): 0.089 A - -	L Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Soffit: 2.00	TCDL: 5.0 psf		Creep Factor: 2.0	G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration: 1.15	BCDL: 3.0 psf		Max TC CSI: 0.693	Bearings L & G are a rigid surface.							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max BC CSI: 0.608	Members not listed have forces less than 375#							
	C&C Dist a: 3.00 ft		Max Web CSI: 0.838	Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: Any			Chords		Tens.Comp.		Chords		Tens. Comp.	
	GCpi: 0.18			A - B	211	- 3318	C - D	211	- 3312		
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17	B - C	211	- 3313	D - E	211	- 3317		

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.49 18.65 4.50
23.75 0.00 23.46 1.49 18.65 4.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



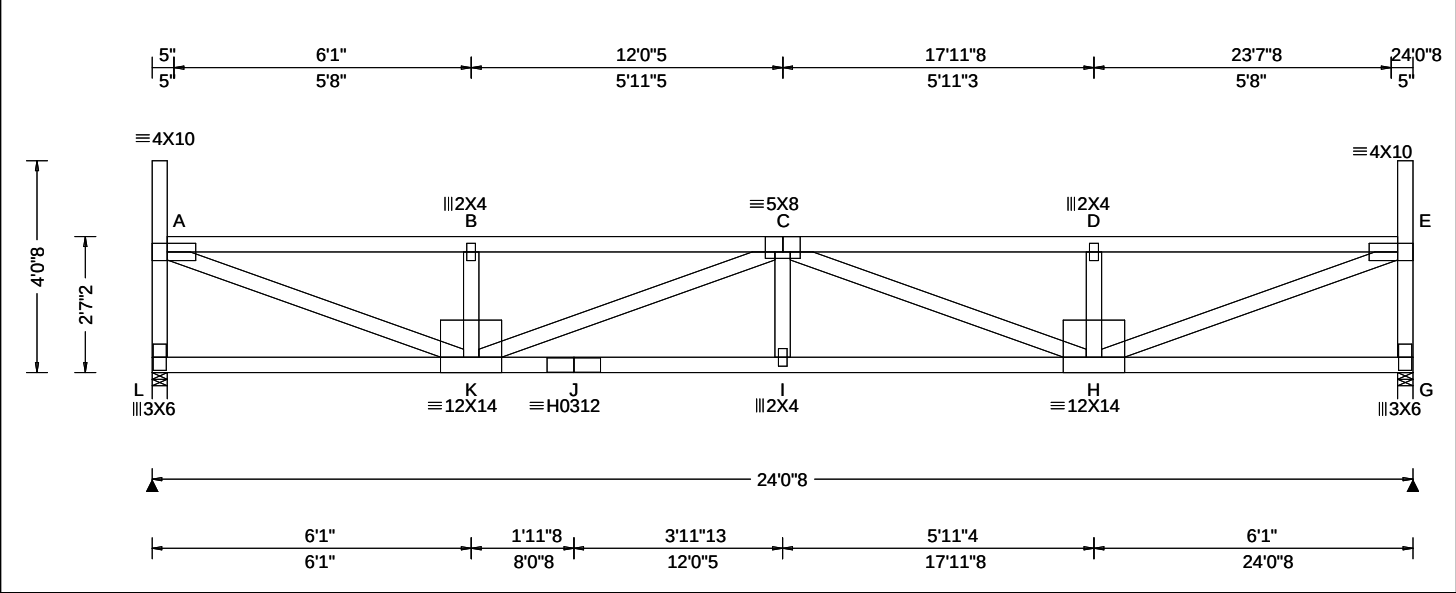
05/20/2022

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Glenview, IL 60025

Building 12

SEQN: 37199 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T45	Cust: R 9316 JRef:1XIP93160003 T196 DrwNo: 140.22.1622.47985 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.251 I 999 360 VERT(CL): 0.466 I 618 240 HORZ(LL): 0.047 A - - HORZ(TL): 0.088 A - - Creep Factor: 2.0 Max TC CSI: 0.676 Max BC CSI: 0.602 Max Web CSI: 0.825 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /87 /125 G 1542 /- /- /731 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 208 -3260 C - D 207 -3253 B - C 208 -3255 D - E 208 -3258

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4200 -269 I - H 4200 -269 J - I 4200 -269
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.45 17.27 4.16 23.75 0.00 23.46 1.45 17.27 4.16 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 102 -1385 C - H 105 -1015 A - K 3364 -206 D - H 80 -378 B - K 80 -378 H - E 3362 -207 K - C 108 -1013 E - G 102 -1385
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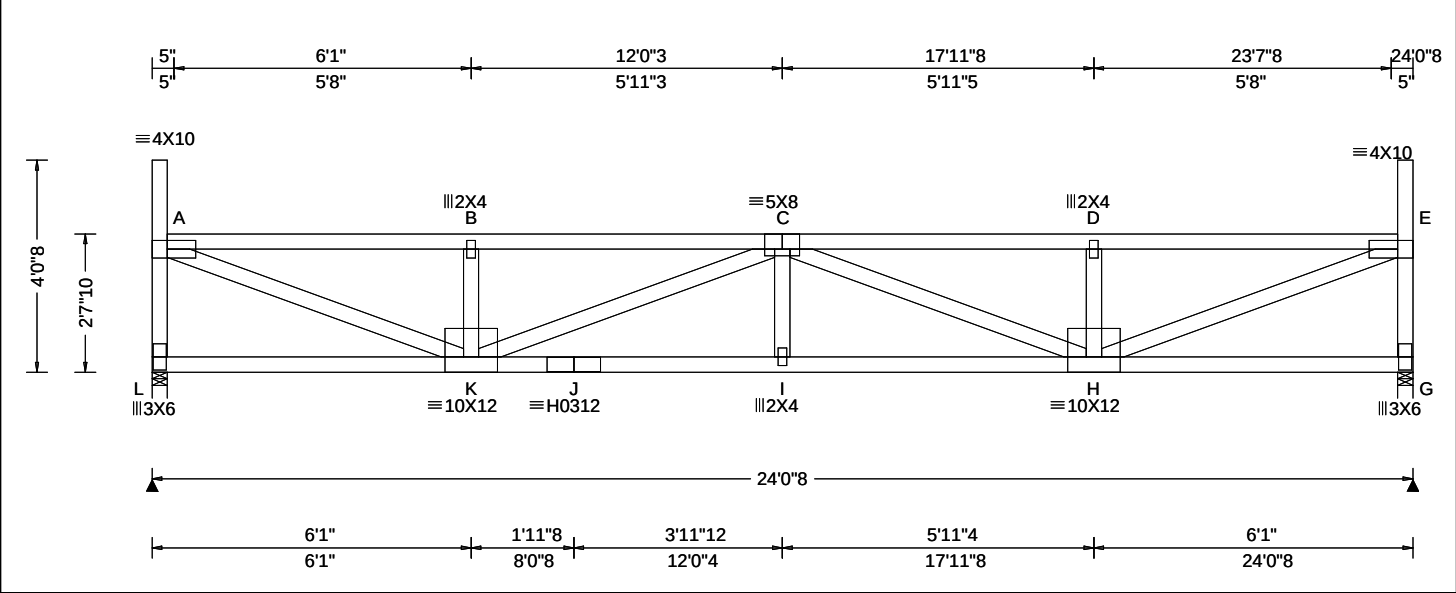
Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	Deflection Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.	
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Building 12

SEQN: 37200 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T46	Cust: R 9316 JRef:1XIP93160003 T207 DrwNo: 140.22.1622.47804 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.243 I 999 360 VERT(CL): 0.451 I 639 240 HORZ(LL): 0.046 A - - HORZ(TL): 0.086 A - - Creep Factor: 2.0 Max TC CSI: 0.663 Max BC CSI: 0.597 Max Web CSI: 0.813 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /88 /123 G 1542 /- /- /731 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 205 -3203 C - D 204 -3197 B - C 204 -3198 D - E 205 -3202

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.41 15.89 3.83
23.75 0.00 23.46 1.41 15.89 3.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



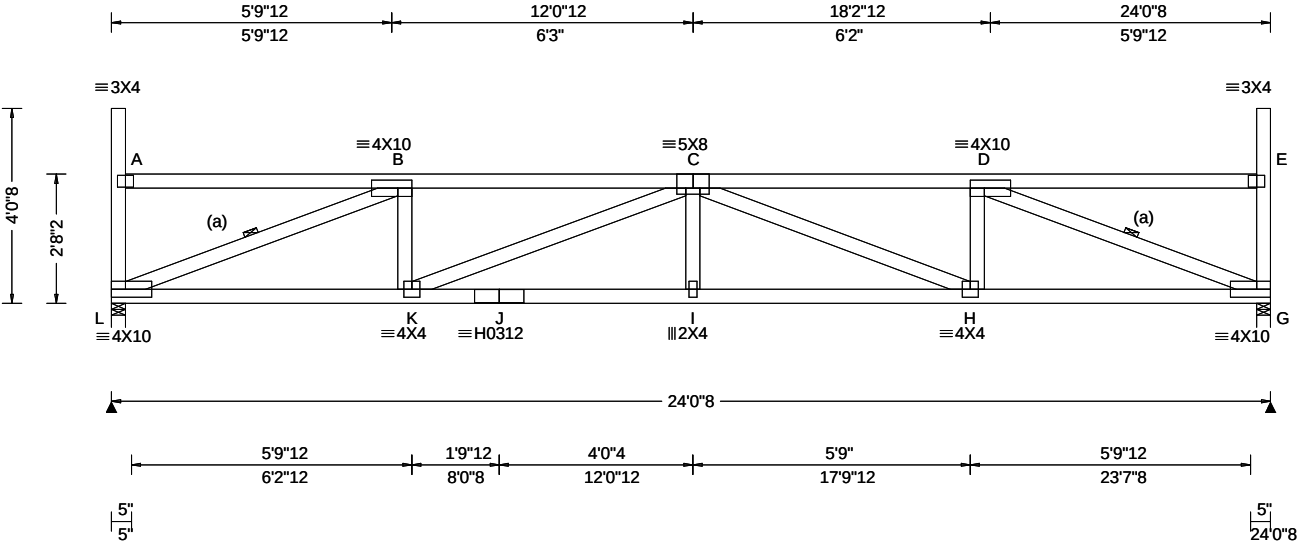
05/20/2022

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North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37201 / FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T47	Cust: R 9316 JRef:1XIP93160003 T203 DrwNo: 140.22.1622.45495 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.223 I 999 360 VERT(CL): 0.415 I 694 240 HORZ(LL): 0.058 G - - HORZ(TL): 0.108 G - - Creep Factor: 2.0 Max TC CSI: 0.516 Max BC CSI: 0.604 Max Web CSI: 0.706 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /88 /122 G 1542 /- /- /731 /88 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -3169 C - D 199 -3166

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



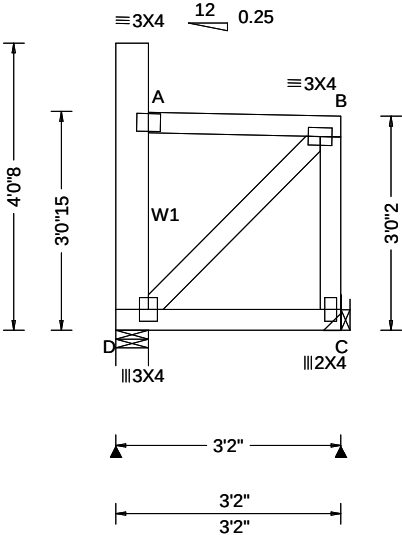
05/20/2022

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Building 12

SEQN: 37202 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48	Cust: R 9316 JRef:1XIP93160003 T197 DrwNo: 140.22.1622.48251 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.71 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.001 B 999 240 HORZ(LL): 0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.139 Max BC CSI: 0.123 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 176 /- /- /111 /53 /78 C 204 /- /- /150 /47 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Truss) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

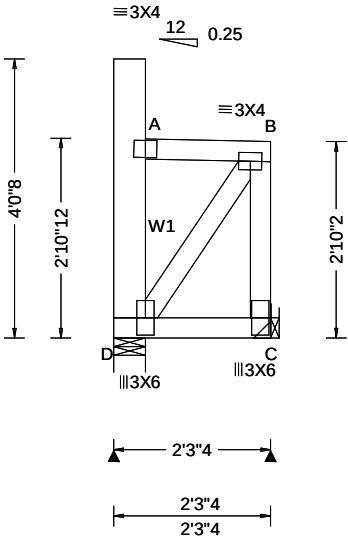
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Glenview, IL 60025

Building 12

SEQN: 37204 / FROM:	MONO Ply: 1 Qty: 16	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T49	Cust: R 9316 JRef:1XIP93160003 T217 DrwNo: 140.22.1622.46305 / NDW 05/20/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg:	20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf:	15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure:	Closed	Lu:	- Cs: 1.00	VERT(CL): 0.000 B 999 240		D	119	/-	/-	/99	/78	/80
BCDL:	15.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL): 0.001 A - -		C	144	/-	/-	/147	/61	/-
Des Ld:	65.00	EXP:	B Kzt: NA			HORZ(TL): 0.001 A - -		Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height:	22.53 ft			Creep Factor: 2.0		D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Soffit:	2.00	TCDL:	5.0 psf	Building Code:		Max TC CSI: 0.065		C Brg Wid = - Min Req = -						
Load Duration:	1.15	BCDL:	3.0 psf	IBC 2018		Max BC CSI: 0.063		Bearing D is a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist:	h/2 to h	TPI Std: 2014		Max Web CSI: 0.042		Members not listed have forces less than 375#						
		C&C Dist a:	3.00 ft	Rep Fac: Yes										
		Loc. from endwall:	Any	FT/RT:20(0)/10(0)										
		GCpi:	0.18	Plate Type(s):										
		Wind Duration:	1.60	WAVE		VIEW Ver: 21.02.00.1005.17								

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes
Truss must be installed as shown with top chord up.



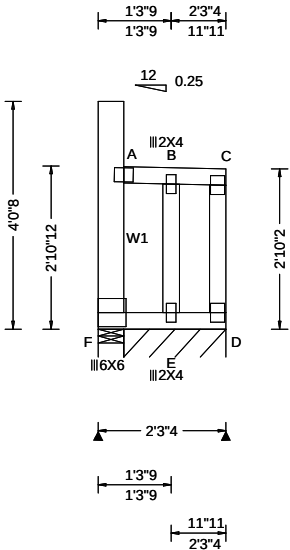
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Building 12

SEQN: 37205 / FROM:	MONO Qty: 8	Ply: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T50	Cust: R 9316 JRef:1XIP93160003 T138 DrwNo: 140.22.1622.45200 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	F	36	/-8	/-	/118	/150	/92
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240	D*	139	/-	/-	/148	/70	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.124 B - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.141 B - -	F	Brg Wid = 5.5		Min Req = 1.5 (Truss)			
NCBCLL: 0.00	Mean Height: 22.53 ft	Building Code:	Creep Factor: 2.0	D	Brg Wid = 21.7		Min Req = -			
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.111	Bearings F & F are a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.255	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.115							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: not in 14.50 ft	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



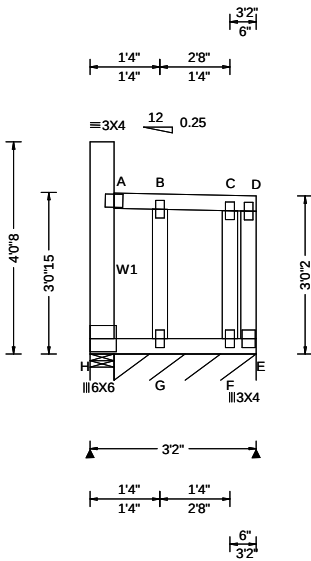
05/20/2022

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
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Building 12

SEQN: 37206 / FROM:	GABL Ply: 1 Qty: 4	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T51	Cust: R 9316 JRef:1XIP93160003 T169 DrwNo: 140.22.1622.47159 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.71 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.007 A 999 360 VERT(CL): 0.010 A 999 240 HORZ(LL): 0.122 C - - HORZ(TL): 0.143 B - - Creep Factor: 2.0 Max TC CSI: 0.105 Max BC CSI: 0.293 Max Web CSI: 0.131 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				H	47	/-	/-	/123	/131	/90
				E*	123	/-	/-	/106	/44	/-

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

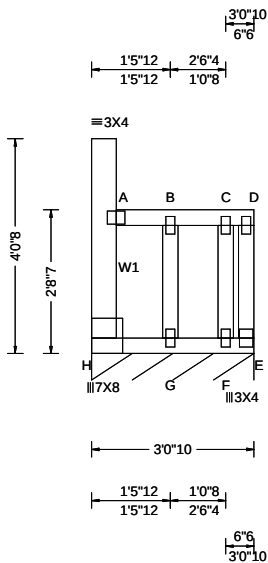


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37207 /	GABL	Ply: 1	Job Number: JB-220696	Cust: R 9316 JRef:1XIP93160003 T132
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 140.22.1622.47604
			Truss Label: T52	/ NDW 05/20/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * =PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	Loc R+ /R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240	E* 119 /- /- /56 /5 /30
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.115 A - -	Wind reactions based on MWFRS
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.134 A - -	E Brg Wid = 36.6 Min Req = -
NCBCLL: 0.00	Mean Height: 22.37 ft	Building Code:	Creep Factor: 2.0	Bearing H is a rigid surface.
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.115	Members not listed have forces less than 375#
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.323	
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.142	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Fasten rated sheathing to one face of this frame.

All plates are 2X4 except as noted.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.34	13.63
					2.59

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Truss must be installed as shown with top chord up.



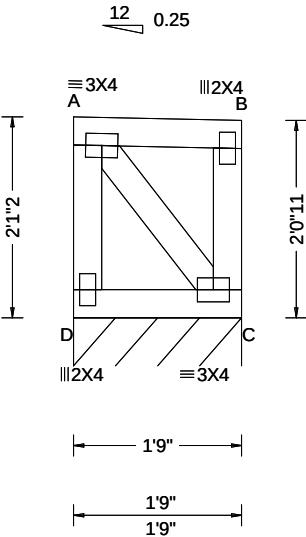
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Building 12

SEQN: 37208 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE01	Cust: R 9316 JRef:1XIP93160003 T188 DrwNo: 140.22.1622.44943 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.039 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 21.0 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



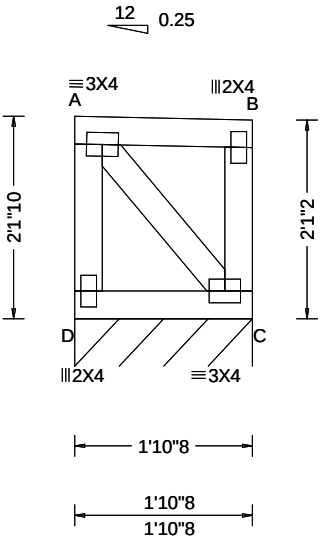
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Building 12

SEQN: 37209 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE02	Cust: R 9316 JRef:1XIP93160003 T189 DrwNo: 140.22.1622.44668 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.12 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.022 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/18
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

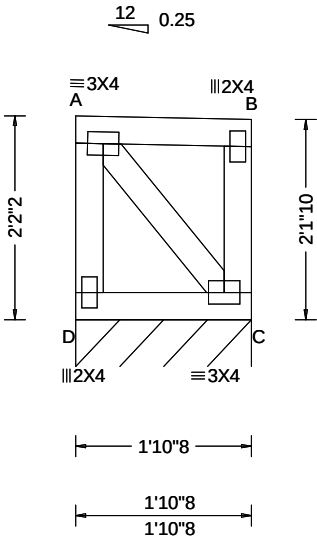


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Building 12

SEQN: 37210 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE03	Cust: R 9316 JRef:1XIP93160003 T190 DrwNo: 140.22.1622.44899 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.16 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.023 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



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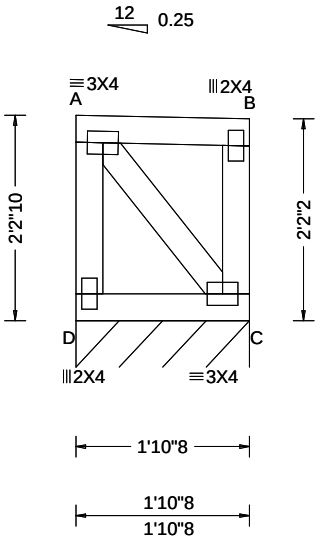
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37211 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE04	Cust: R 9316 JRef:1XIP93160003 T192 DrwNo: 140.22.1622.45090 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

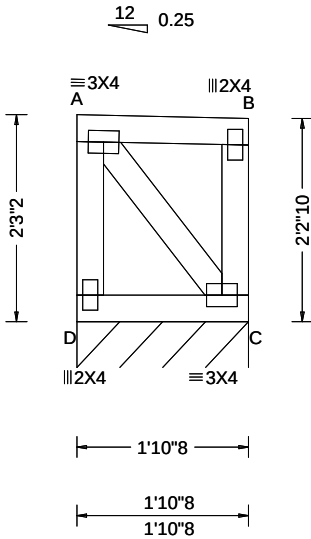


05/20/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com ; TPI: tpinst.org ; SBCA: sbcacomponents.com ; ICC: iccsafe.org ; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 12

SEQN: 37212 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE05	Cust: R 9316 JRef:1XIP93160003 T215 DrwNo: 140.22.1622.44011 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



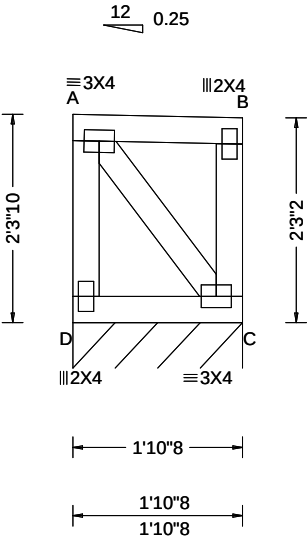
05/20/2022

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Building 12

SEQN: 37213 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE06	Cust: R 9316 JRef:1XIP93160003 T219 DrwNo: 140.22.1622.43760 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.28 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.026 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



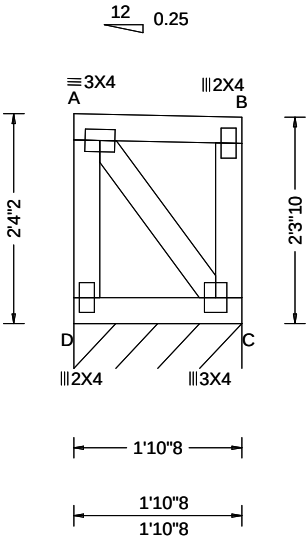
05/20/2022

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Building 12

SEQN: 37214 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE07	Cust: R 9316 JRef:1XIP93160003 T220 DrwNo: 140.22.1622.43756 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.32 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.027 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

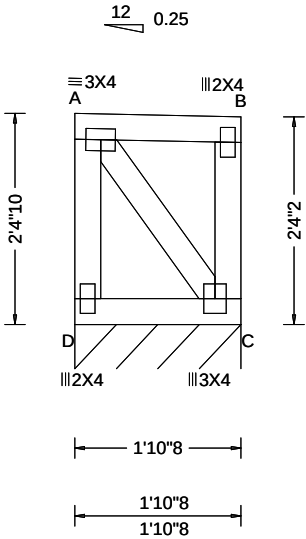


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Building 12

SEQN: 37215 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE08	Cust: R 9316 JRef:1XIP93160003 T221 DrwNo: 140.22.1622.45195 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



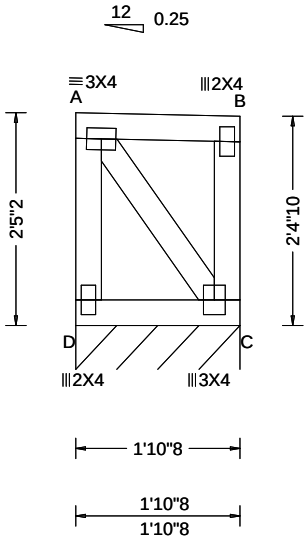
05/20/2022

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Building 12

SEQN: 37216 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE09	Cust: R 9316 JRef:1XIP93160003 T222 DrwNo: 140.22.1622.44721 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.41 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.029 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /5 /22 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



05/20/2022

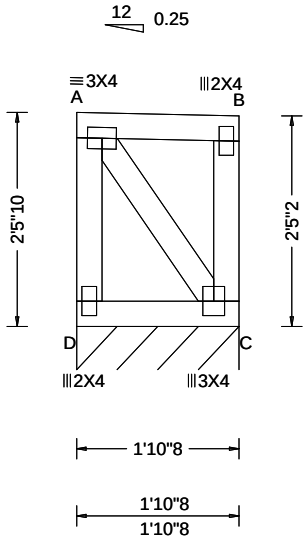
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37217 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE10	Cust: R 9316 JRef:1XIP93160003 T223 DrwNo: 140.22.1622.44589 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.45 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.031 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

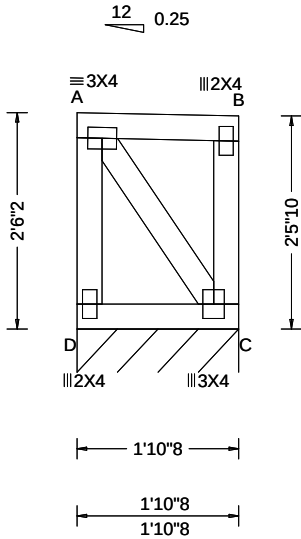


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Building 12

SEQN: 37218 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE11	Cust: R 9316 JRef:1XIP93160003 T224 DrwNo: 140.22.1622.44541 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.49 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.032 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



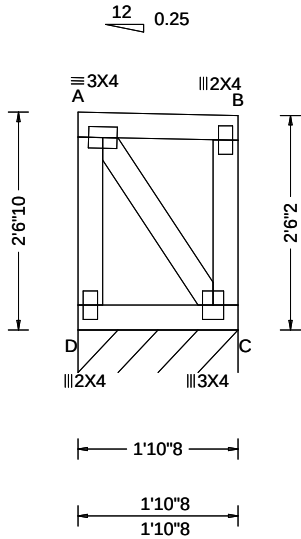
05/20/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 12

SEQN: 37219 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE12	Cust: R 9316 JRef:1XIP93160003 T225 DrwNo: 140.22.1622.43815 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

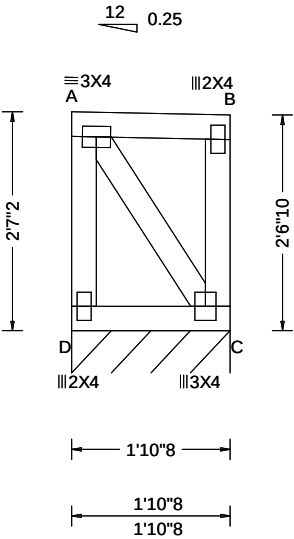


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Building 12

SEQN: 37220 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE13	Cust: R 9316 JRef:1XIP93160003 T226 DrwNo: 140.22.1622.43759 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



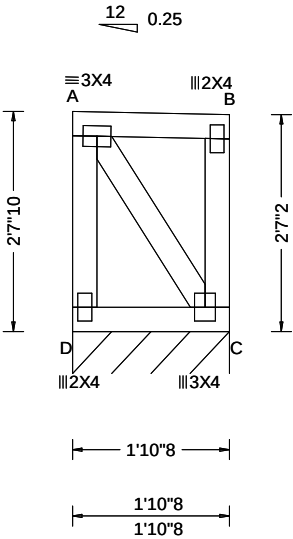
05/20/2022

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Building 12

SEQN: 37221 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE14	Cust: R 9316 JRef:1XIP93160003 T227 DrwNo: 140.22.1622.44232 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.036 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

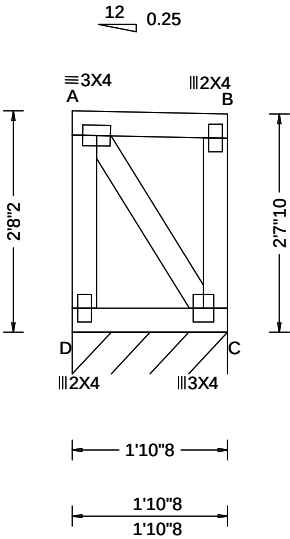


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Building 12

SEQN: 37222 / FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE15	Cust: R 9316 JRef:1XIP93160003 T228 DrwNo: 140.22.1622.44540 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.037 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /24 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



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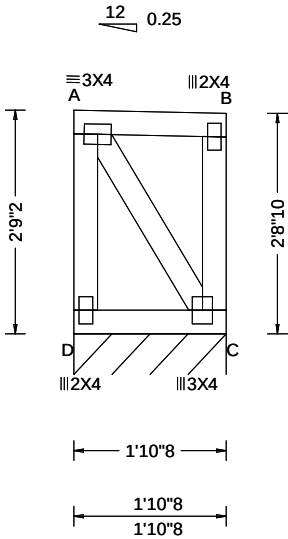
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37223 / FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE16	Cust: R 9316 JRef:1XIP93160003 T251 DrwNo: 140.22.1622.44390 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

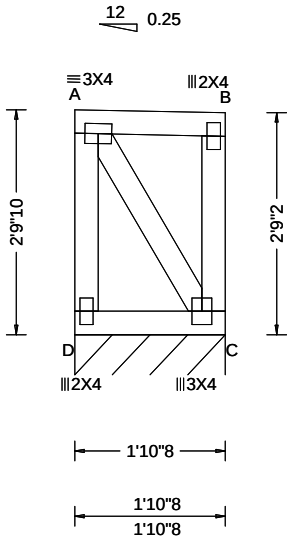


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Building 12

SEQN: 37224 / FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE17	Cust: R 9316 JRef:1XIP93160003 T252 DrwNo: 140.22.1622.44261 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/26
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



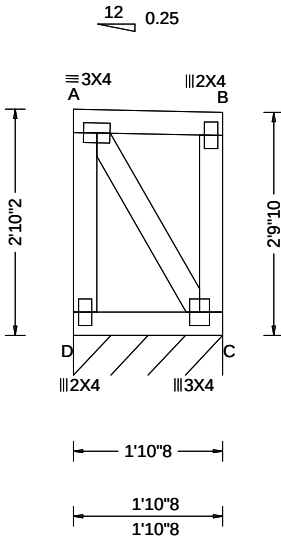
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Building 12

SEQN: 37225 / FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE18	Cust: R 9316 JRef:1XIP93160003 T253 DrwNo: 140.22.1622.43926 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.82 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/26
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



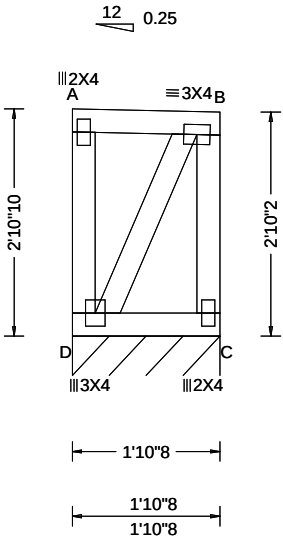
05/20/2022

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Building 12

SEQN: 37226 / FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE19	Cust: R 9316 JRef:1XIP93160003 T254 DrwNo: 140.22.1622.47228 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.043 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/27
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



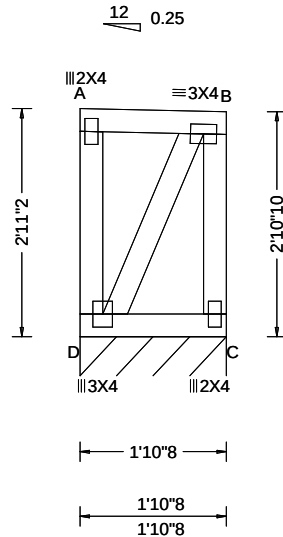
05/20/2022

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Building 12

SEQN: 37227 /	MONO	Ply: 1	Job Number: JB-220696	Cust: R 9316 JRef:1XFP93160003 T255
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 140.22.1622.48204
			Truss Label: TGE20	/ NDW 05/20/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in	loc L/defl L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf: 15.4	Ce: 1.0	VERT(LL):	0.000 A 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure:	Closed	Lu: -	Cs: 1.00	VERT(CL):	0.000 A 999 240	C*	130	/-	/-	/61	/6	/28
BCDL:	15.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL):	-0.001 A - -	Wind reactions based on MWFRS						
		EXP:	B Kzt: NA			HORZ(TL):	0.001 A - -	C Brg Wid = 22.5 Min Req = -						
Des Ld:	65.00	Mean Height:	22.57 ft			Creep Factor: 2.0		Bearing D is a rigid surface.						
NCBCLL:	0.00	TCDL:	5.0 psf	Building Code:		Max TC CSI: 0.053		Members not listed have forces less than 375#						
Soffit:	2.00	BCDL:	3.0 psf	IBC 2018		Max BC CSI: 0.046								
Load Duration:	1.15	MWFRS Parallel Dist: 0 to h/2		TPI Std: 2014		Max Web CSI: 0.044								
Spacing:	24.0 "	C&C Dist a: 3.00 ft		Rep Fac: Yes										
		Loc. from endwall: Any		FT/RT:20(0)/10(0)										
		GCpi: 0.18		Plate Type(s):										
		Wind Duration: 1.60		WAVE		VIEW Ver: 21.02.00.1005.17								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2:

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



05/20/2022

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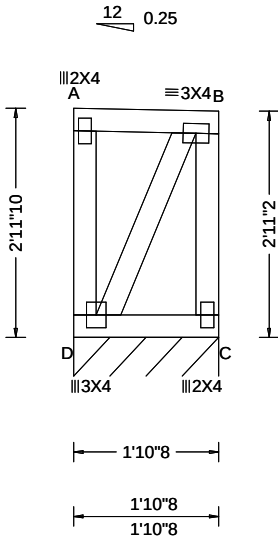
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37228 / FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE21	Cust: R 9316 JRef:1XIP93160003 T256 DrwNo: 140.22.1622.47479 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.046 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/28
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



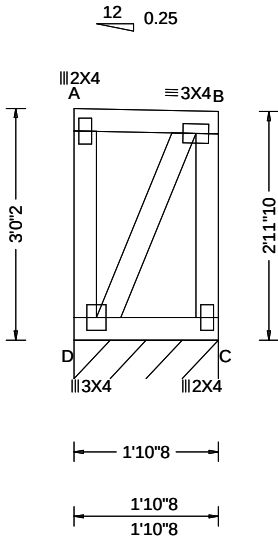
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Building 12

SEQN: 37229 / FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE22	Cust: R 9316 JRef:1XIP93160003 T257 DrwNo: 140.22.1622.47480 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.000 B 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.047 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/29
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



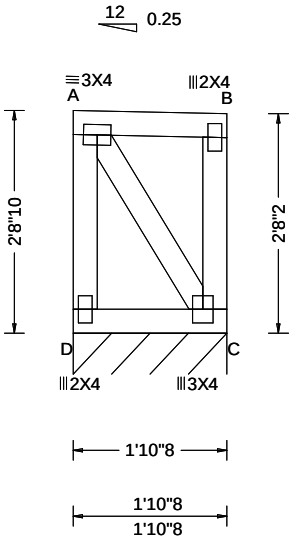
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Building 12

SEQN: 37230 / FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE23	Cust: R 9316 JRef:1XIP93160003 T231 DrwNo: 140.22.1622.43770 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.038 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



05/20/2022

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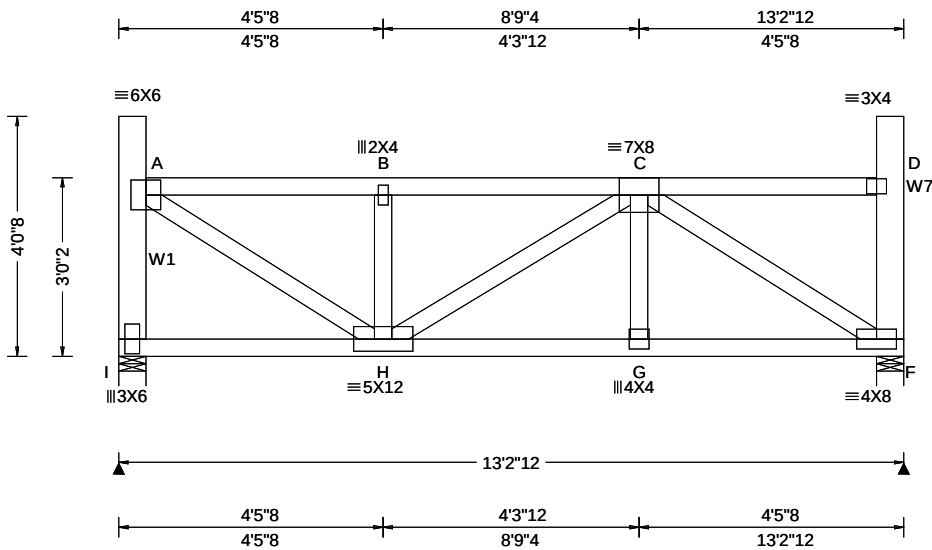
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Building 12

SEQN: 37262	FLAT	Ply: 1	Job Number: JB-220696	Cust: R 9316 JRef:1XFP93160003 T4
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 140.22.1624.57520
			Truss Label: T09	/ PPH 05/20/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.038 B 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.071 B 999 240		I	1464	/ -	/ -	/ -	/190	/ -	
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.012 A - -		F	1371	/ -	/ -	/ -	/170	/ -	
Des Ld: 65.00		EXP: B Kzt: NA				HORZ(TL): 0.022 A - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height: 22.68 ft		Building Code:		Creep Factor: 2.0		I	Brg Wid = 5.5 Min Req = 1.9 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf		IBC 2018		Max TC CSI: 0.313		F	Brg Wid = 5.5 Min Req = 1.7 (Truss)						
Load Duration: 1.15		BCDL: 3.0 psf		TPI Std: 2014		Max BC CSI: 0.556		Bearings I & F are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		Rep Fac: Varies by Ld Case		Max Web CSI: 0.834		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)				Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall: Any		Plate Type(s):				Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18													
		Wind Duration: 1.60		WAVE		VIEW Ver: 21.02.00.1005.17		A - B		231 -1777		B - C		231 -1772	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 70 plf at 0.46 to 70 plf at 12.77
 BC: From 60 plf at 0.00 to 60 plf at 13.23
 BC: 204 lb Conc. Load at 1.17, 3.17, 5.17, 11.17
 BC: 183 lb Conc. Load at 7.17, 9.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.

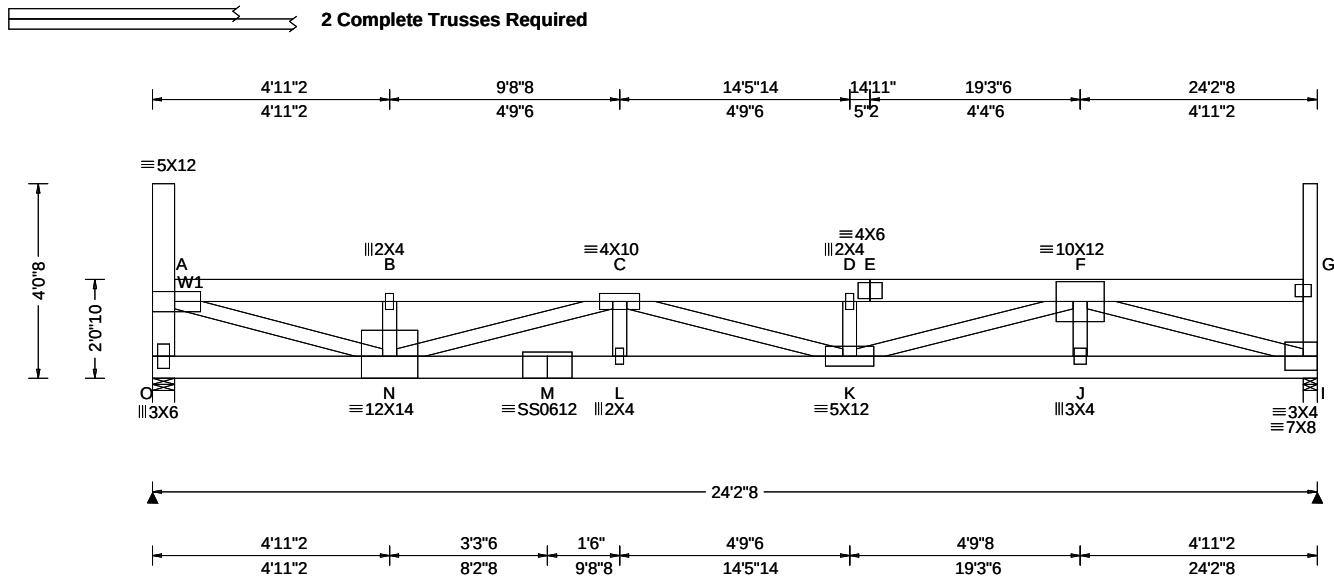


~~05/20/2022~~

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SEQN: 37268	FLAT	Ply: 2	Job Number: JB-220696	Cust: R 9316 JRef:1XFP93160003 T5
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 140.22.1625.02503
			Truss Label: T16	/ PPH 05/20/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.264 D 999 360	Loc R+ /R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.491 D 591 240	O 2490 /- /- /- /400 /-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.040 I - -	I 2497 /- /- /- /407 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.075 I - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.72 ft	Building Code:	Creep Factor: 2.0	O Brg Wid = 5.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.233	I Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.654	Bearings O & I are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.908	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	A - B 530 - 3212 D - E 794 - 4713

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

 TC: From 70 plf at 0.46 to 70 plf at 23.92
 BC: From 60 plf at 0.00 to 60 plf at 24.21
 BC: 173 lb Conc. Load at 2.06,10.06,12.06,14.06
 16.06,20.06,22.06
 BC: 170 lb Conc. Load at 4.06, 6.06, 8.06,18.06

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.99	34.38	4.14
23.92	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



~~05/20/2022~~

05/20/2022
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2490	/-	/-	/-	/400	/-
I	2497	/-	/-	/-	/407	/-

Wind reactions based on MWFRS
 O Brg Wid = 5.5 Min Req = 2.0 (Truss)
 I Brg Wid = 3.5 Min Req = 2.0 (Truss)
 Bearings O & I are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
--------	-------	-------	--------	-------	-------

A - B	530 - 3212	D - E	794 - 4713
B - C	529 - 3204	E - F	794 - 4713
C - D	794 - 4713		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.

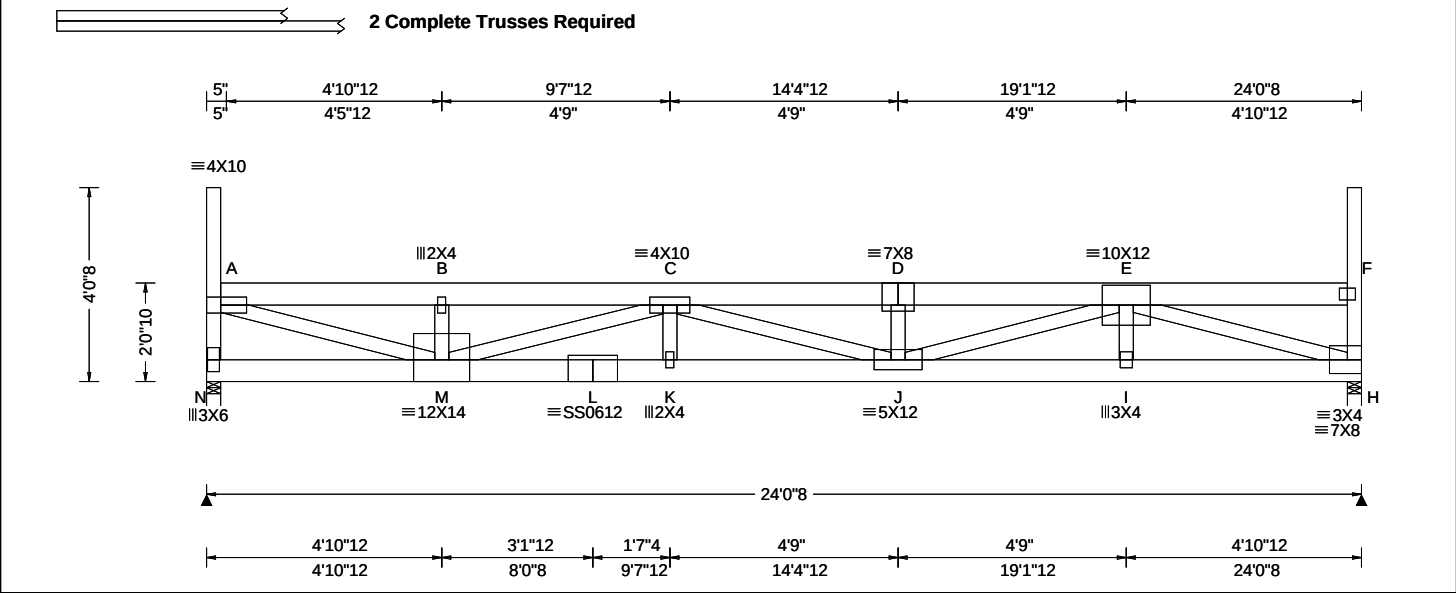
N - M	4707	- 787	K - J	3200	- 538
M - L	4707	- 787	J - I	3200	- 538
L - K	4707	- 787			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.	Comp.	Webs	Tens.	Comp.

O - A	177 - 1111	K - F	1594 - 270
A - N	3175 - 524	F - I	558 - 3319
N - C	272 - 1585		

Building 12

SEQN: 37265 FROM:	FLAT Qty: 2	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T32	Cust: R 9316 JRef:1XIP93160003 T8 DrwNo: 140.22.1625.04457 / PPH 05/20/2022
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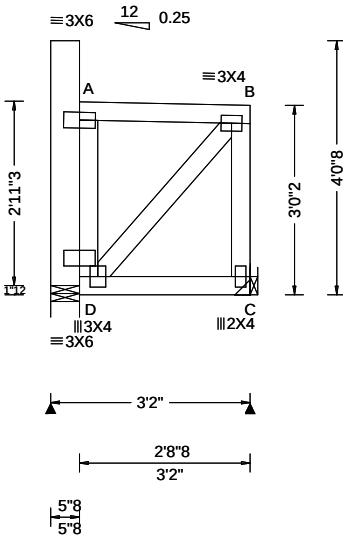
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.258 D 999 360 VERT(CL): 0.480 D 601 240 HORZ(LL): 0.039 H - - HORZ(TL): 0.073 H - - Creep Factor: 2.0 Max TC CSI: 0.228 Max BC CSI: 0.646 Max Web CSI: 0.892 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 2499 /- /- /- /408 /- H 2480 /- /- /- /407 /- Wind reactions based on MWFRS N Brg Wid = 3.5 Min Req = 2.0 (Truss) H Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 533 -3180 C - D 792 -4651 B - C 532 -3172 D - E 792 -4651

Lumber Top chord: 2x6 SPF 1650f-1.5E; Bot chord: 2x6 SPF 1650f-1.5E; Webs: 2x4 SPF #1/#2;	Wind Wind loads and reactions based on MWFRS. End verticals exposed to wind pressure. Deflection meets L/360.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 4650 -790 J - I 3159 -535 L - K 4650 -790 I - H 3159 -535 K - J 4650 -790
Nailnote Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @10.00" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.	Deflection Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - A 181 -1116 J - E 1574 -271 A - M 3203 -538 E - H 556 -3279 M - C 272 -1559
Special Loads ----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 70 plf at 0.29 to 70 plf at 23.75 BC: From 60 plf at 0.00 to 60 plf at 24.04 BC: 173 lb Conc. Load at 1.90, 7.90, 9.90,11.90 13.90,15.90,19.90,21.90 BC: 170 lb Conc. Load at 3.90, 5.90,17.90	Additional Notes Truss must be installed as shown with top chord up.	

Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.99 34.38 4.14 23.75 0.00 23.46 1.99 34.38 4.14 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	
Purlins The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.	

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCEA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCEA: sbceacomponents.com; ICC: iccsafe.org; AWC: awc.org	 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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SEQN: 37259 FROM:	MONO Ply: 1 Qty: 4	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48A	Cust: R 9316 JRef:1XIP93160003 T14 DrwNo: 140.22.1625.06490 / PPH 05/20/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg:	20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf:	15.4 Ce: 1.0	VERT(LL): 0.000 D 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure:	Closed	Lu:	- Cs: 1.00	VERT(CL): 0.001 D 999 240		D	170	/-	/-	/107	/55	/81
BCDL:	15.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL): 0.002 A - -		C	183	/-	/-	/139	/46	/-
Des Ld:	65.00	EXP:	B Kzt: NA			HORZ(TL): 0.002 A - -		Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height:	22.71 ft			Creep Factor: 2.0		D Brg Wid = 5.5 Min Req = 1.5 (Support)						
Soffit:	2.00	TCDL:	5.0 psf			Max TC CSI: 0.120		C Brg Wid = - Min Req = -						
Load Duration:	1.15	BCDL:	3.0 psf			Max BC CSI: 0.103		Bearing D is a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2			Max Web CSI: 0.057		Members not listed have forces less than 375#						
		C&C Dist a:	3.00 ft											
		Loc. from endwall:	Any											
		GCpi:	0.18											
		Wind Duration:	1.60											
				WAVE		VIEW Ver: 21.02.00.1005.17								

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Bearing Leg: 2x4 SPF 1650f-1.5E;

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11639.51" if used)

Additional Notes
Truss must be installed as shown with top chord up.



05/20/2022

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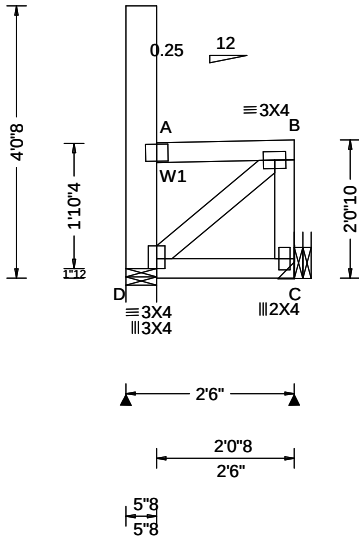
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37159 / FROM:	MONO Ply: 1 Qty: 17	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02A	Cust: R 9316 JRef:1XIP93160003 T12 DrwNo: 140.22.1622.46957 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	122	/-	/-	/98	/76	/62
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	170	/-	/-	/145	/56	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.001 A - -	D Brg Wid = 5.5 Min Req = 1.5 (Support)						
	Creep Factor: 2.0		C Brg Wid = - Min Req = -							
NCBCLL: 0.00	Mean Height: 21.70 ft	IBC 2018	Max TC CSI: 0.102	Bearing D is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.079	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	Rep Fac: Yes	Max Web CSI: 0.106							
	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)								
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Plate Type(s):								
	Loc. from endwall: Any	WAVE	VIEW Ver: 21.02.00.1005.17							
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes
Truss must be installed as shown with top chord up.



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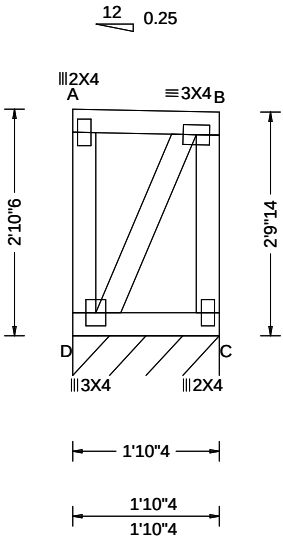
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37231 / FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE24	Cust: R 9316 JRef:1XIP93160003 T13 DrwNo: 140.22.1622.47570 / NDW 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.052 Max BC CSI: 0.045 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /27 Wind reactions based on MWFRS C Brg Wid = 22.2 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



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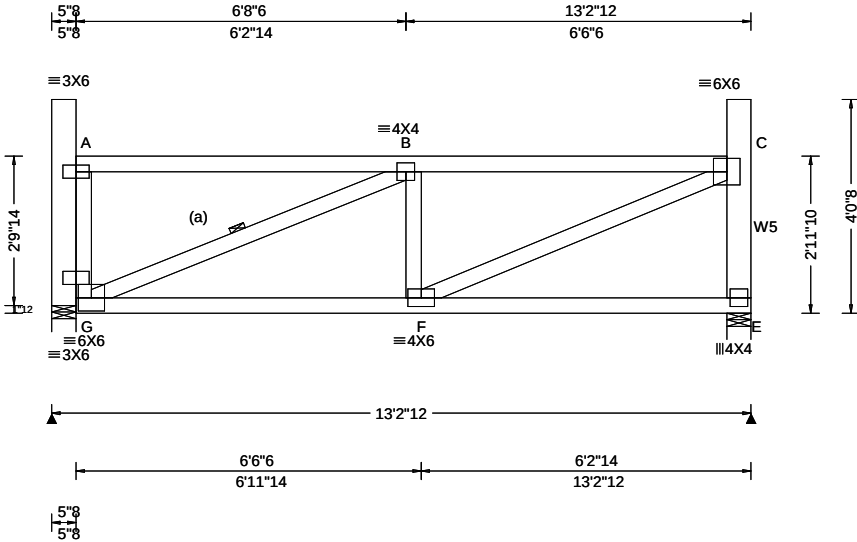
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 12

SEQN: 37167 FROM:	MONO Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220696 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08A	Cust: R 9316 JRef:1XIP93160003 T10 DrwNo: 140.22.1625.39033 / PPH 05/20/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.036 B 999 360 VERT(CL): 0.067 B 999 240 HORZ(LL): 0.007 E - - HORZ(TL): 0.013 E - - Creep Factor: 2.0 Max TC CSI: 0.705 Max BC CSI: 0.887 Max Web CSI: 0.297 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL G 823 /- /- /395 /51 /79 E 805 /- /- /382 /48 /- Non-Gravity Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 99 - 1198

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11965.47" if used)

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.			
G - F	1195	- 107		

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.	Webs	Tens. Comp.	
A - G	655	- 22	F - C	1198 - 100
G - A	51	- 824	C - E	63 - 651
G - B	94	- 1265		



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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

05/20/2022

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Gable Stud Reinforcement Detail
ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.	SPF	#1 / #2	#1	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	DFL	Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
		Standard	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	#1	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	HF	#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		DFL	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#1	Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	HF	#1	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		DFL	Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

1x4 Braces shall be SRB (Stress-Rated Board).
***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

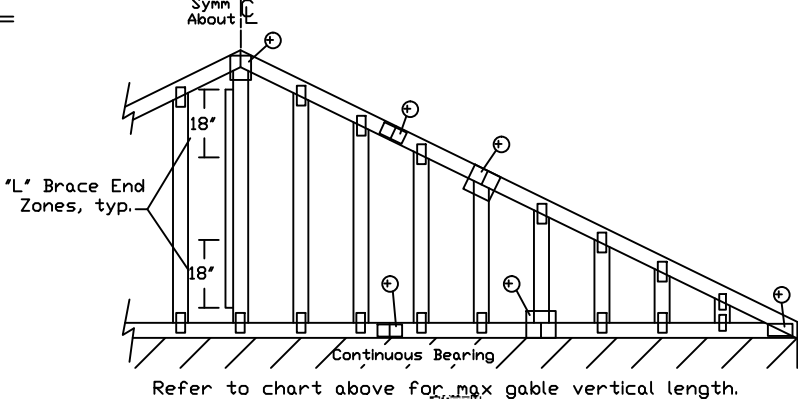
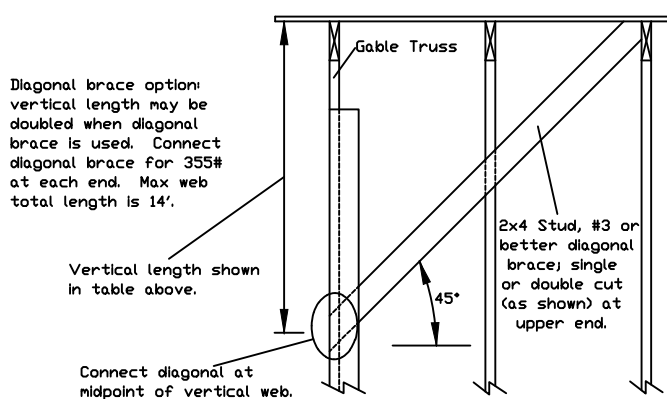
Gable Truss Detail Notes:
Wind Load deflection criterion is L/240.
Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.
* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
** For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4
+ Refer to common truss design for peak, splice, and heel plates.	

Refer to the Building Designer for conditions not addressed by this detail.



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ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

05/20/2022

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-16-GAB11530

DATE 01/26/2018

DRWG A11530ENC160118

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

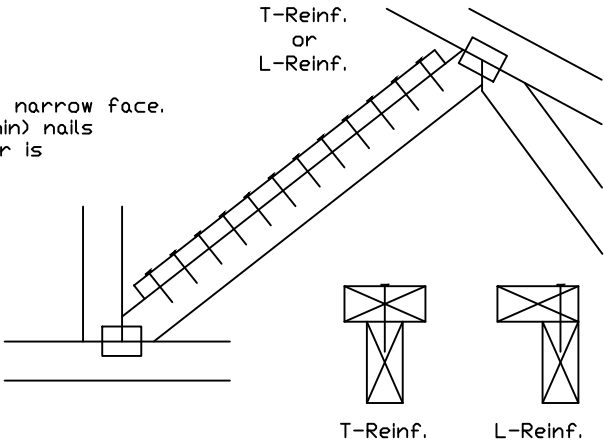
Web Member Size	Specified CLR Restraint	Alternative Reinforcement	
		T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

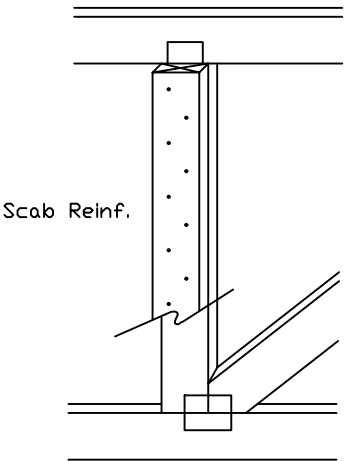
T-Reinforcement
or
L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.





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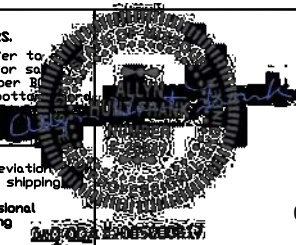
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05/20/2022

TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



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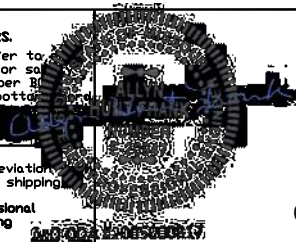
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05/20/2022

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

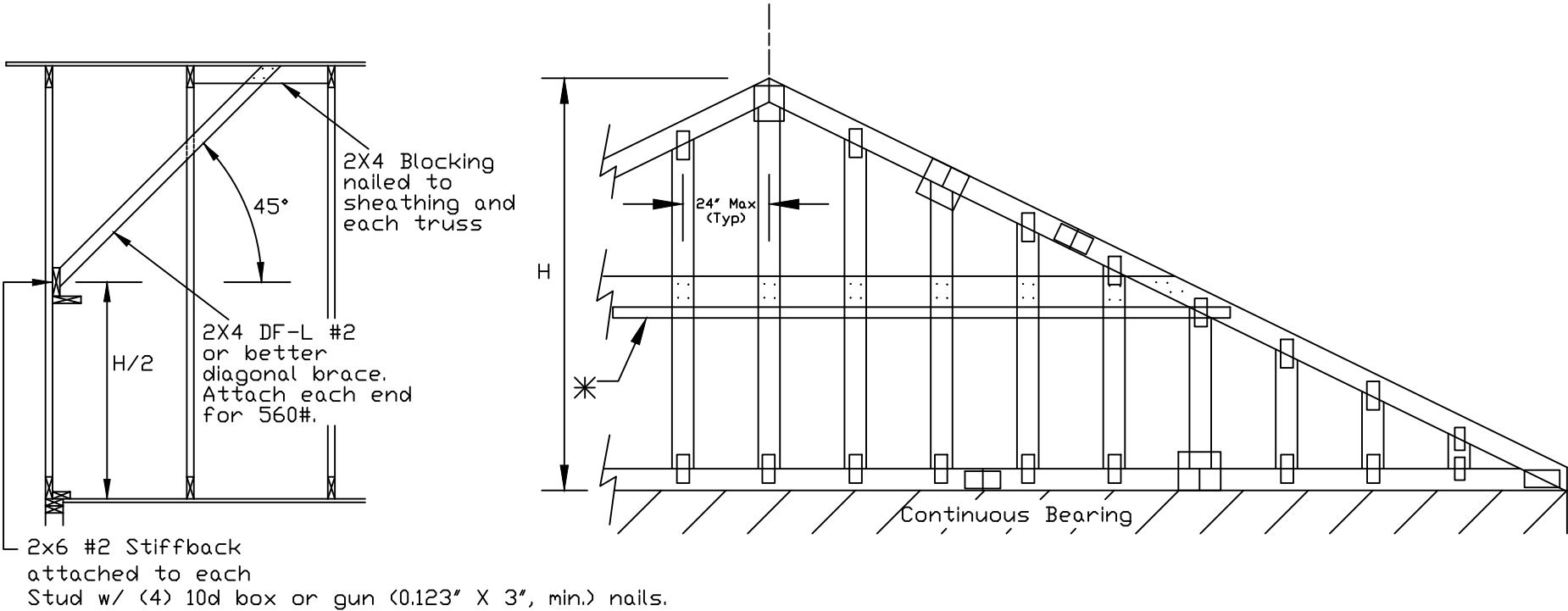
120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail
for lumber, plates, and other information not shown
on this detail.

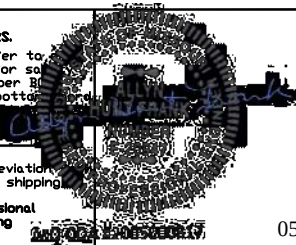
Nails: 10d box or gun (0.128"x3",min) nails.

- H Less than 4'6" - no stud bracing required
- H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback
to roof diaphragm every 6'0" (see detail below or
refer to DRWG A12030ENC160118).
- H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace
to roof diaphragm every 4'0" (see detail below or
refer to DRWG A12030ENC160118).
- * Optional 2x L-reinforcement attached
to stiffback with 10d box or gun
(0.128" x 3", min.) nails @ 6" o.c.



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For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

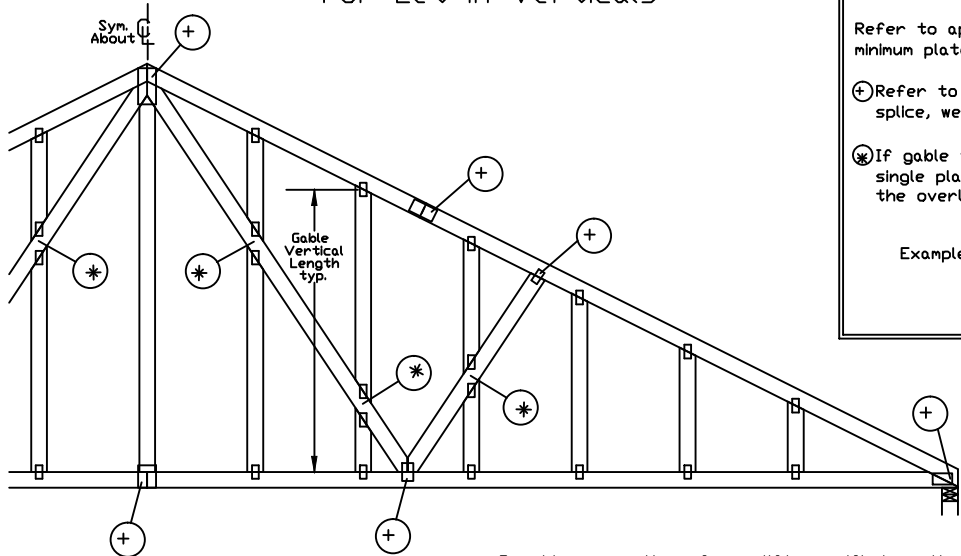


05/20/2022

MAX. TOT. LD. 60 PSF
MAX. SPACING

REF GE WHALER
DATE 01/02/2018
DRWG GABRST160118

Gable Detail
For Let-in Verticals



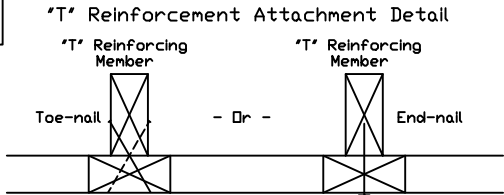
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148"x 3",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

- ASCE 7-05 Gable Detail Drawings
- A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014
- ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
- A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.

To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

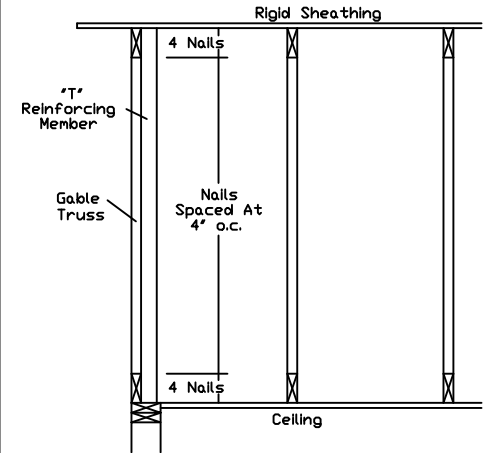
"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24' o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"





Structural Engineers – Since 1957

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

BOB D. CAMPBELL & CO., INC.

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Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 13 Truss	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 13 Floor Layout

Total Truss Quantity = 180.

Total Plan Area with OHs = 4292 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
	= THA422	126	Simpson
	= THA422-2	4	Simpson

SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.
 STRUCTURAL ENGINEERS
 DATE: 05/30/2022 BY: CB

REVIEWED

DATE RECIEVED:

REVIEWED AS NOTED ☐

DATE REVIEWED: 8/12/2022

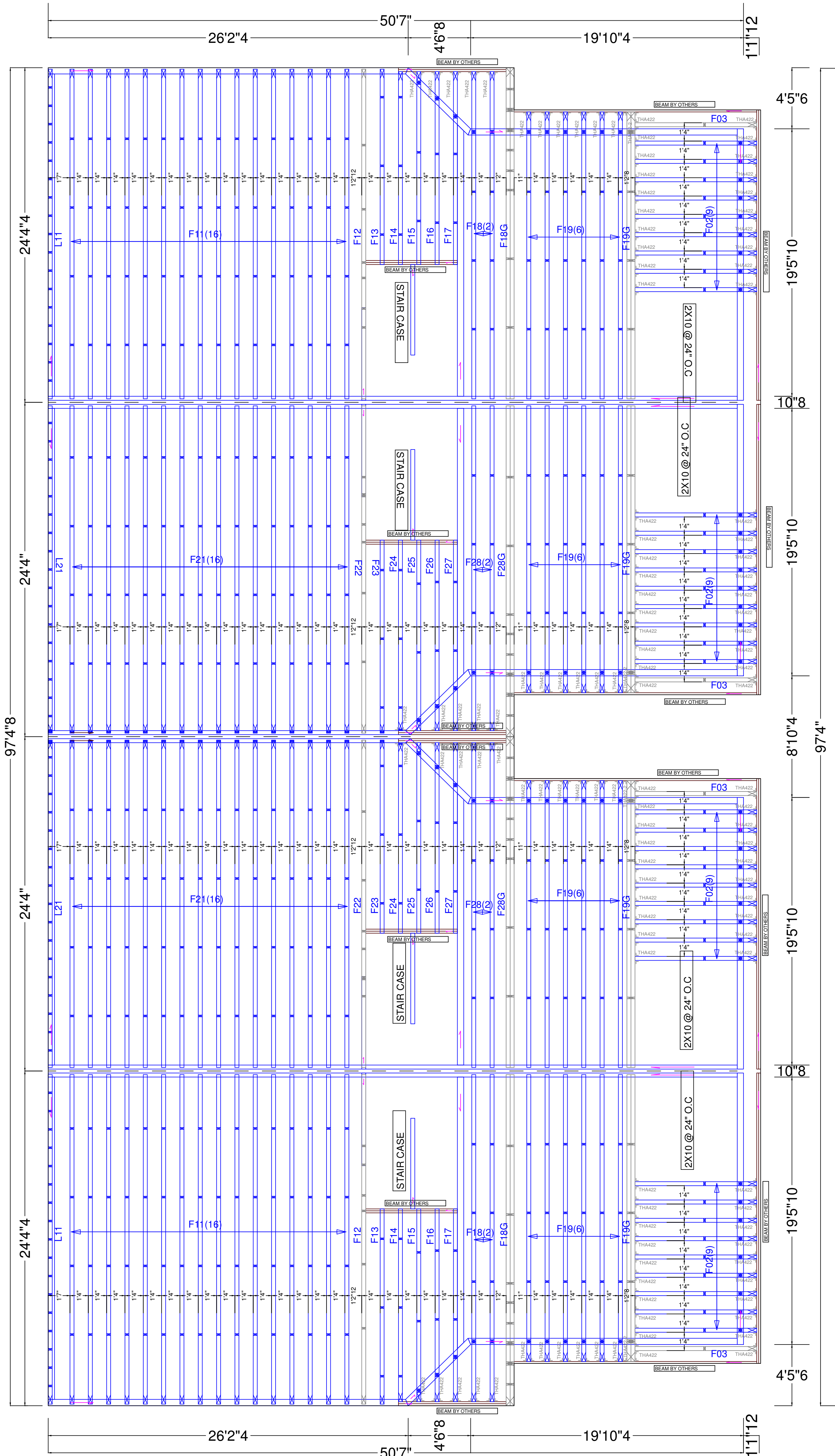
REVIEWED BY: michaela.silva

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



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ARCHITECTS

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St. Louis, Missouri 63144
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DO NOT Erect Backwards/UpSide Down or Cut, Alter, Installed Trusses

Job Name:

McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220697

Date: 3/17/2022

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address:

2100 NW Lowenstein Dr
Lee's Summit
MO



3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108



Alpine, an ITW company
514 Earth City Expressway
Suite 242
Earth City, MO 63045
Phone: (800)326-4102 (314)344-9121
alpineitw.com

03/17/2022

REVIEWED ☒

DATE RECEIVED:

REVIEWED AS NOTED ☐

DATE REVIEWED: 8/12/2022

REVISE AND RESUBMIT ☐

REVIEWED BY: michaela.silva

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



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SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/30/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220697
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00
	JRef #: 1XdX93160012
Wind Standard: ASCE716	Wind Speed (mph): 0
Building Type:	Design Loading (psf): 75.00

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	076.22.1330.02386	F02	2	076.22.1330.04075	F03
3	076.22.1330.05201	F11	4	076.22.1330.04191	F12
5	076.22.1330.04336	F13	6	076.22.1330.03427	F14
7	076.22.1330.04058	F15	8	076.22.1330.05054	F16
9	076.22.1330.05362	F17	10	076.22.1330.02480	F18
11	076.22.1330.05097	F18G	12	076.22.1330.11968	F19
13	076.22.1330.11961	F19G	14	076.22.1330.02456	F21
15	076.22.1330.05301	F22	16	076.22.1330.03810	F23
17	076.22.1330.02481	F24	18	076.22.1330.04335	F25
19	076.22.1330.02534	F26	20	076.22.1330.02483	F27
21	076.22.1330.02479	F28	22	076.22.1330.02482	F28G
23	076.22.1330.04217	L11	24	076.22.1330.04838	L21
25	CNSY42PL0118		26	DEFLCAMB1014	
27	LSCSYX2A1014		28	STRBRIBR1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

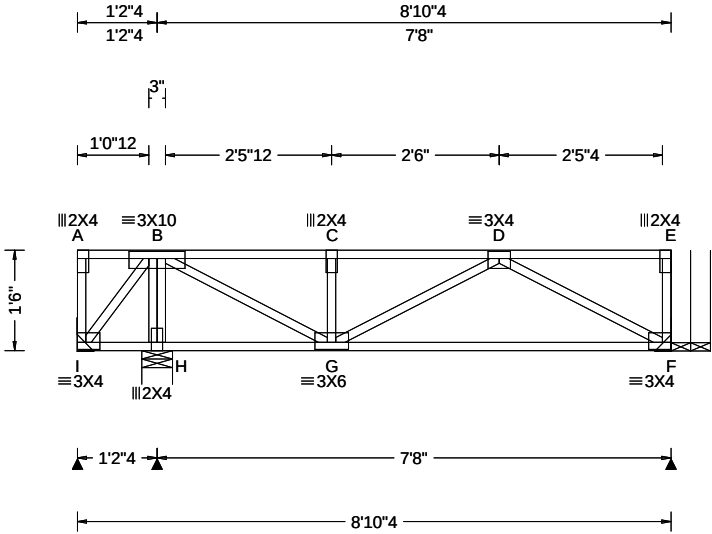
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 514 Earth City Expressway, Suite 242, Earth City, MO 63045; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 13

SEQN: 11842 / FROM:	SY42 Qty: 36	Ply: 1 Qty: 36	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F02	Cust: R 9316 JRef:1XdX93160012 T6 DrwNo: 076.22.1330.02386 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.018 C 999 480 VERT(CL): 0.034 C 999 360 HORZ(LL): 0.002 F - - HORZ(TL): 0.004 F - - Creep Factor: 2.0 Max TC CSI: 0.299 Max BC CSI: 0.301 Max Web CSI: 0.162 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 28 /-43 /- /- /- /- H 525 /- /- /- /- /- F 372 /- /- /- /- /- I Brg Wid = - Min Req = - H Brg Wid = 5.5 Min Req = 1.5 (Truss) F Brg Wid = - Min Req = - Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

G - F 473 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

B - H 0 -499 D - F 0 -537
B - G 576 0



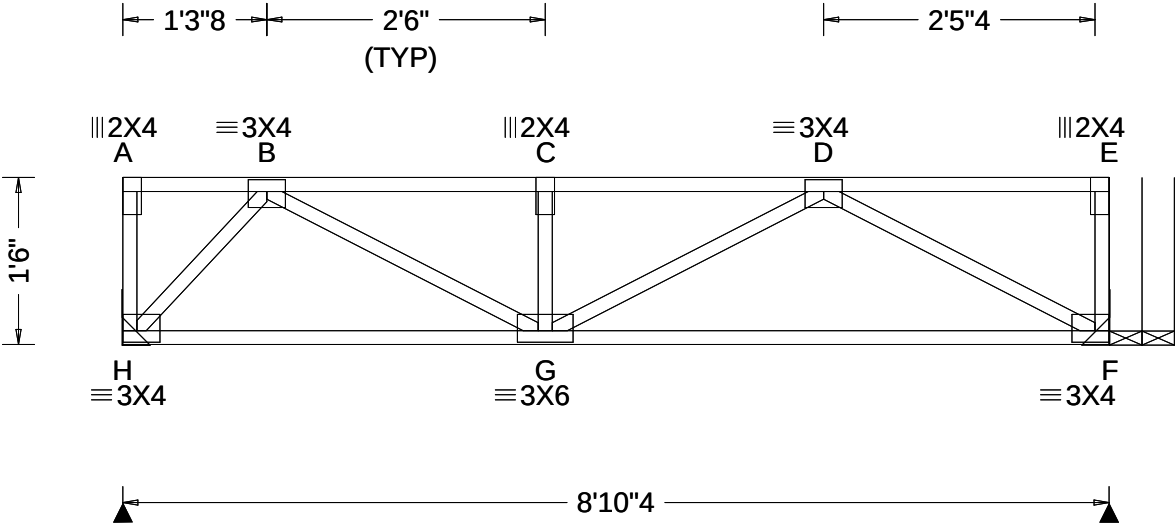
03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 13

SEQN: 11844 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F03	Cust: R 9316 JRef:1XdX93160012 T7 / DrwNo: 076.22.1330.04075 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.024 C 999 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.046 C 999 360		H	443	/-	/-	/-	/-	/-	
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): 0.004 B - -		F	443	/-	/-	/-	/-	/-	
Des Ld: 75.00		EXP: NA Kzt: NA		Building Code:		HORZ(TL): 0.008 B - -		H Brg Wid = -		Min Req = -					
NCBCLL: 0.00		Mean Height: NA ft				Creep Factor: 2.0		F Brg Wid = -		Min Req = -					
Soffit: 0.00		TCDL: NA psf		IBC 2018		Max TC CSI: 0.298		Members not listed have forces less than 375#							
Load Duration: 1.00		BCDL: NA psf		TPI Std: 2014		Max BC CSI: 0.324		Maximum Top Chord Forces Per Ply (lbs)							
Spacing: 16.0 "		MWFRS Parallel Dist: NA		Rep Fac: Yes		Max Web CSI: 0.141		Chords		Tens.Comp.		Chords		Tens. Comp.	
		C&C Dist a: NA ft		FT/RT:12(0)/10(0)				B - C		0 -747		C - D		0 -747	
		Loc. from endwall: NA		Plate Type(s):											
		I: NA GCpi: NA		WAVE		VIEW Ver: 21.02.00.1005.17		Maximum Bot Chord Forces Per Ply (lbs)							
		Wind Duration: NA													

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes
Truss must be installed as shown with top chord up.



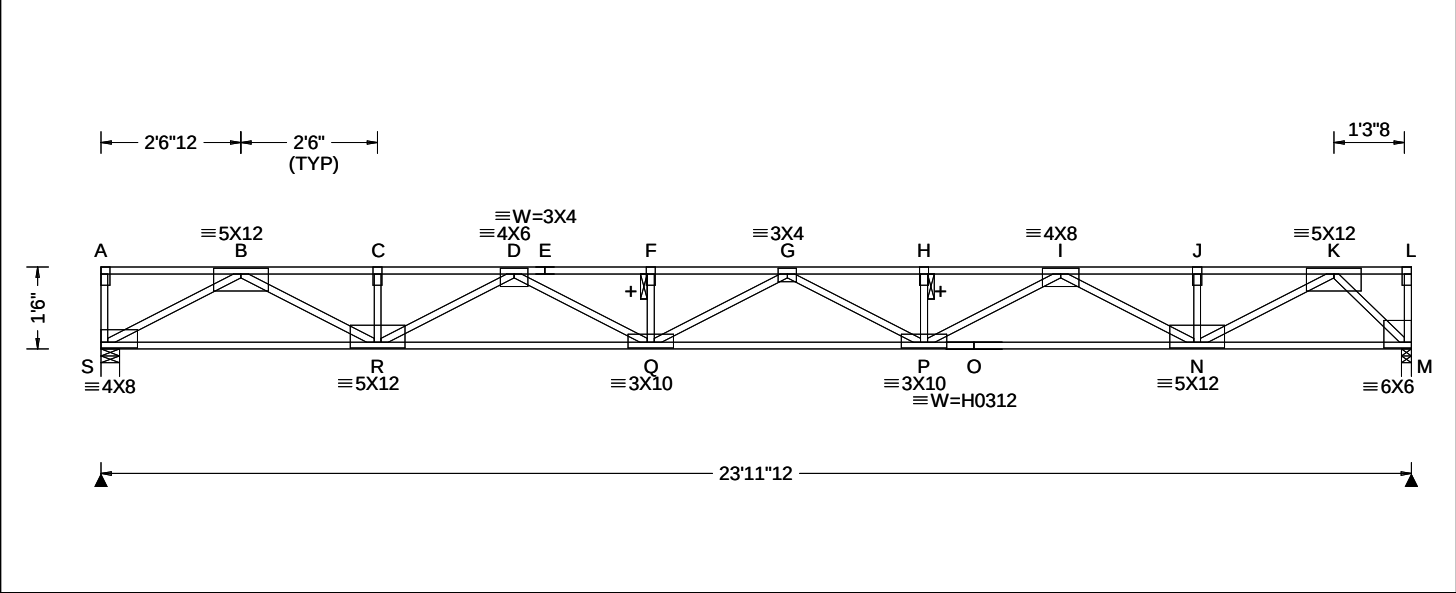
03/17/2022

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Building 13

SEQN: 11846 / FROM:	SY42 Qty: 32	Ply: 1 Qty: 32	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F11	Cust: R 9316 JRef:1XdX93160012 T28 / DrwNo: 076.22.1330.05201 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.414 G 695 480 VERT(CL): 0.775 G 371 360 HORZ(LL): 0.057 M - - HORZ(TL): 0.107 M - - Creep Factor: 2.0 Max TC CSI: 0.398 Max BC CSI: 0.672 Max Web CSI: 0.551 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL S 1199 /- /- /- /- /- M 1199 /- /- /- /- /- S Brg Wid = 4.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3522 G - H 0 - 4917 C - D 0 - 3522 H - I 0 - 4917 D - E 0 - 5123 I - J 0 - 2895 E - F 0 - 5123 J - K 0 - 2895 F - G 0 - 5123

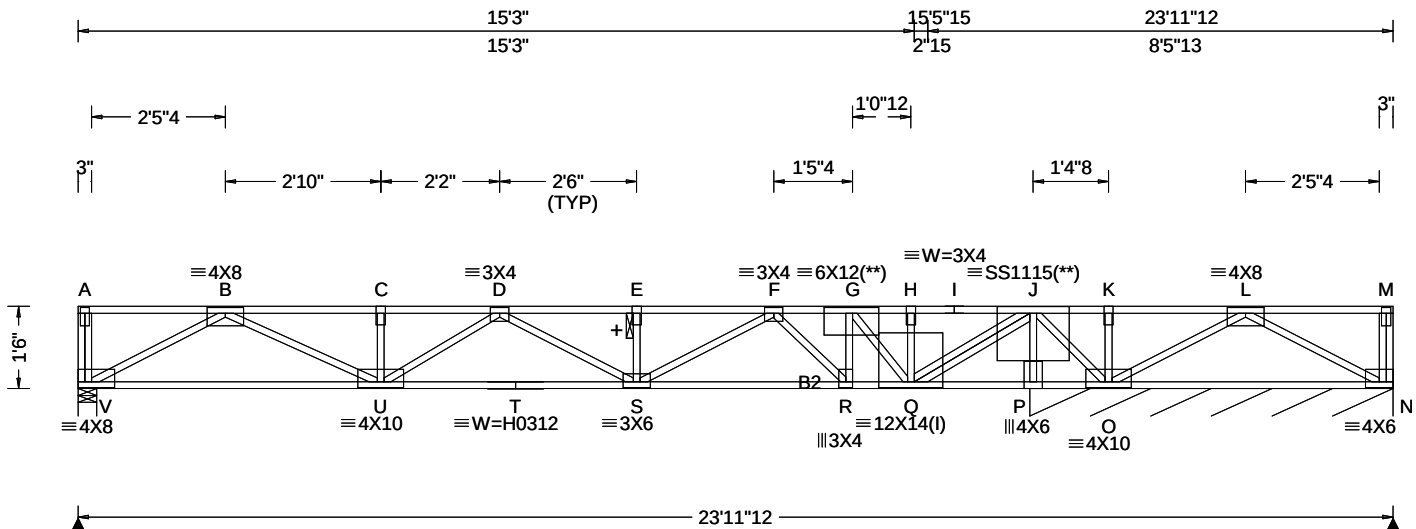
Lumber Top chord: 4x2 DF-L 2400f-2.0E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;	Plating Notes All plates are 2X4 except as noted.	Deflection Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCAMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. S - R 2010 0 P - O 4106 0 R - Q 4523 0 O - N 4106 0 Q - P 5219 0 N - M 1183 0	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - B 0 - 2281 P - I 925 0 B - R 1725 0 I - N 0 - 1382 R - D 0 - 1143 N - K 1954 0 D - Q 684 0 K - M 0 - 1648
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Building 13

SEQN: 11848 /	SY42	Ply: 1	Job Number: JB-220697	Cust: R 9316 JRef: 1XdX93160012 T1 /
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 076.22.1330.04191
			Truss Label: F12	/ NDW 03/17/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.201 E 999 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lur: NA Cs: NA	VERT(CL): 0.377 E 545 360	V 961 /- /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.029 B - -	N* 443 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.054 B - -	N /-304
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	V Brg Wid = 4.1 Min Req = 1.5 (Truss)
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.946	N Brg Wid = 79.5 Min Req = -
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.960	Bearings V & P are a rigid surface.
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.568	Members not listed have forces less than 375#
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: NA	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	l: NA GCpi: NA			
	Wind Duration: NA	WAVE, HS, 18SS	VIEW Ver: 21.02.00.1005.17	
				B - C 0 - 2615 G - H 0 - 818
				C - D 0 - 2615 U - L 0 - 818

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
 TC: From 87 plf at 0.00 to 87 plf at 23.98
 BC: From 13 plf at 0.00 to 13 plf at 23.98
 TC: 1500 lb Conc. Load at 14.06

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.



03/17/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBCA: sbaccomponents.com; ICC: iccsafe.org; AWC: awc.org

▲ Maximum Reactions (lbs), or *PLF						
Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N	/ -304					
V	Brg Wid = 4.1 Min Req = 1.5 (Truss)					
N	Brg Wid = 79.5 Min Req = -					
Bearings V & P are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.Comp.		Chords	Tens. Comp.		
B - C	0	- 2615	G - H	0	- 818	
C - D	0	- 2615	H - I	0	- 818	
D - E	0	- 3202	I - J	0	- 818	
E - F	0	- 3202	J - K	2031	0	
F - G	0	- 2426	K - L	2031	0	

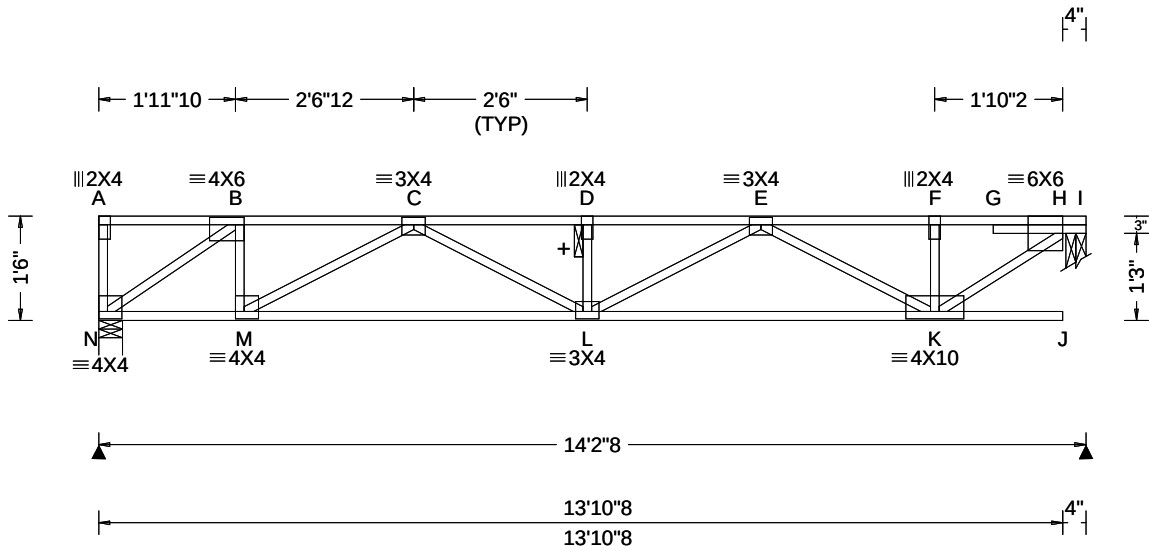
Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	- 2607
T - S	3059	0	P - O	0	- 2607
S - R	2851	0	O - N	0	- 784

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.	Comp.	Webs	Tens. Comp.
V - B	0	-1680	G - Q	0 -2558
B - U	1283	0	Q - J	4025 0
U - D	0	-526	J - P	0 -2889
S - F	401	0	J - O	816 0
F - R	0	-615	O - L	0 -1423
R - G	488	0	L - N	897 0

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AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11850 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F13	Cust: R 9316 JRef:1XdX93160012 T23 / DrwNo: 076.22.1330.04336 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.096 D 999 480 VERT(CL): 0.179 D 942 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.620 Max BC CSI: 0.537 Max Web CSI: 0.329 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 702 -/- -/- -/- -/- H 714 -/- -/- -/- -/- N Brg Wid = 4.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -943 E - F 0 -943 C - D 0 -1836 F - H 0 -942 D - E 0 -1836

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	905 0	L - K	1574 0
M - L	1582 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1104	E - K	0 -721
B - M	416 0	K - H	1166 0
M - C	0 -734		

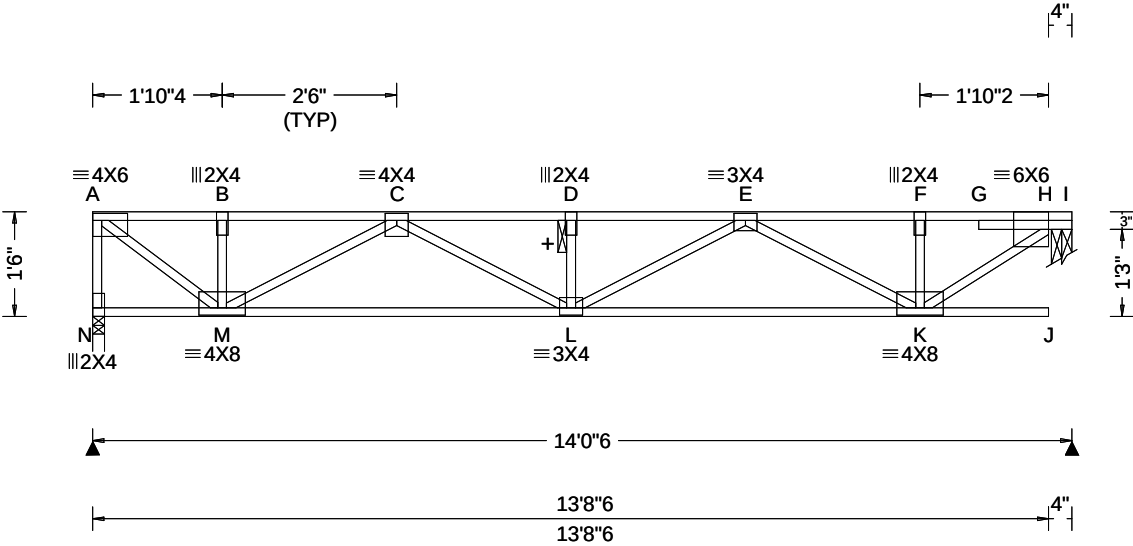


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Building 13

SEQN: 11852 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F14	Cust: R 9316 JRef:1XdX93160012 T15 / DrwNo: 076.22.1330.03427 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.093 D 999 480 VERT(CL): 0.174 D 955 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.612 Max BC CSI: 0.524 Max Web CSI: 0.324 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 693 /- /- /- /- /- H 706 /- /- /- /- /- N Brg Wid = 2.0 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -849 D - E 0 -1791 B - C 0 -849 E - F 0 -929 C - D 0 -1791 F - H 0 -929

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1520 0	L - K	1546 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -690	E - K	0 -703
A - M	1057 0	K - H	1150 0
M - C	0 -766		



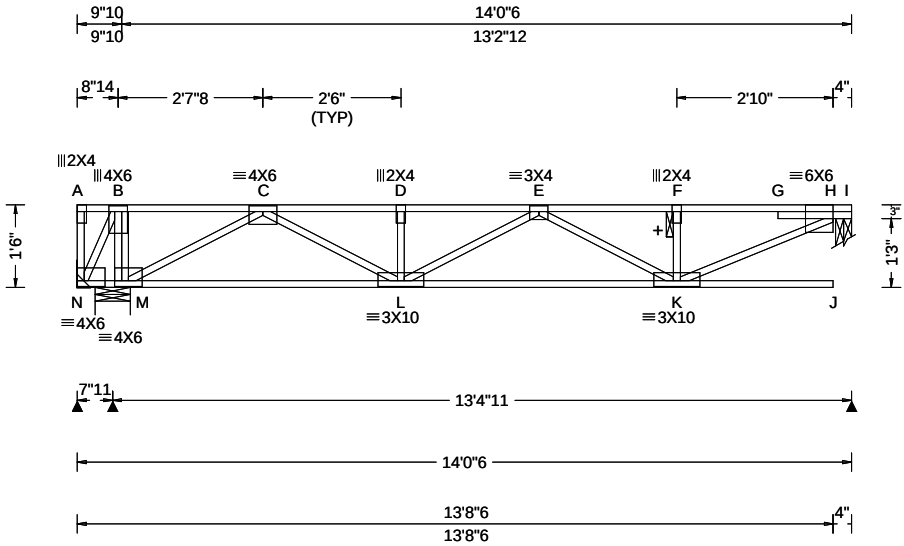
03/17/2022

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Building 13

SEQN: 11854 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F15	Cust: R 9316 JRef:1XdX93160012 T26 / DrwNo: 076.22.1330.04058 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.200 J 780 480 VERT(CL): 0.320 J 487 360 HORZ(LL): 0.011 C - - HORZ(TL): 0.020 C - - Creep Factor: 2.0 Max TC CSI: 0.961 Max BC CSI: 0.588 Max Web CSI: 0.339 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-708 /- /- /- /- N 1480 /- /- /- /- /- H 618 /- /- /- /- /- N Brg Wid = - Min Req = - N Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 SPF #1/#2; Bot chord: 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2; Deflection Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCAMB1014 for camber recommendations. Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less. Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 600 0 L - K 1318 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 685 0 C - L 693 0 B - M 0 -840 K - H 1201 0 M - C 0 -1141
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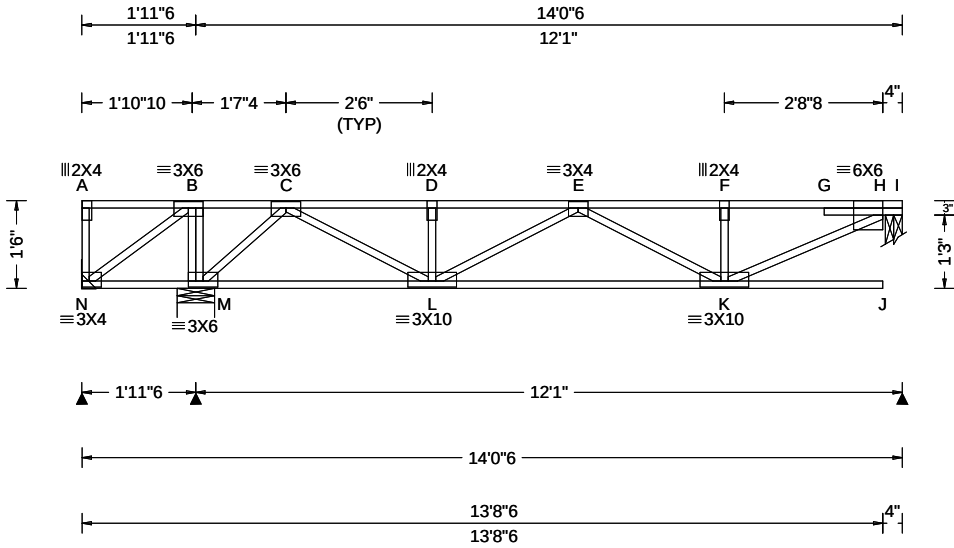


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Building 13

SEQN: 11856 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F16	Cust: R 9316 JRef:1XdX93160012 T33 / DrwNo: 076.22.1330.05054 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.159 J 897 480	N	-	/-323	/-	/-	/-	/-
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.249 J 570 360	M	1131	/-	/-	/-	/-	/-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.007 C - -	I	547	/-	/-	/-	/-	/-
Des Ld: 75.00	EXP: NA Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	HORZ(TL): 0.013 C - -	N	Brg Wid = -		Min Req = -			
NCBCLL: 0.00	Mean Height: NA ft		Creep Factor: 2.0	M	Brg Wid = 7.7		Min Req = 1.5 (Truss)			
Soffit: 0.00	TCDL: NA psf		Max TC CSI: 0.823	I	Brg Wid = 3.5		Min Req = 1.5 (Truss)			
Load Duration: 1.00	BCDL: NA psf		Max BC CSI: 0.493	Bearings M & H are a rigid surface.						
Spacing: 16.0 "	MWFRS Parallel Dist: NA		Max Web CSI: 0.283	Members not listed have forces less than 375#						
	C&C Dist a: NA ft			Maximum Top Chord Forces Per Ply (lbs)						
	Loc. from endwall: NA			Chords	Tens.Comp.		Chords	Tens. Comp.		
	I: NA GCpi: NA									
	Wind Duration: NA									
			VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
Truss must be installed as shown with top chord up.

B - C	511	0	E - F	0	-901
C - D	0	-818	F - H	0	-903
D - E	0	-818			
Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
N - M	0	-469	L - K	1034	0
Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.		Webs	Tens. Comp.	
N - B	580	0	C - L	816	0
B - M	0	-512	K - H	1004	0
M - C	0	-842			

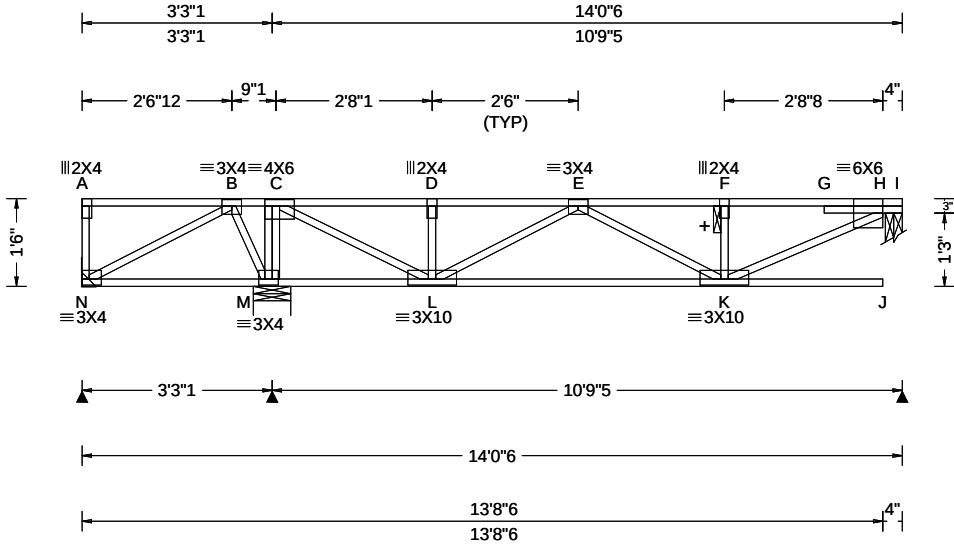


03/17/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org

Building 13

SEQN: 11858 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F17	Cust: R 9316 JRef:1XdX93160012 T20 / DrwNo: 076.22.1330.05362 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 870 480 VERT(CL): 0.233 J 550 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.749 Max BC CSI: 0.437 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 57 /-122 /- /- /- /- M 959 /- /- /- /- /- I 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 SPF #1/#2; Bot chord: 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2;	Deflection Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. L - K 818 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. M - C 0 -627 K - H 874 0 C - L 963 0
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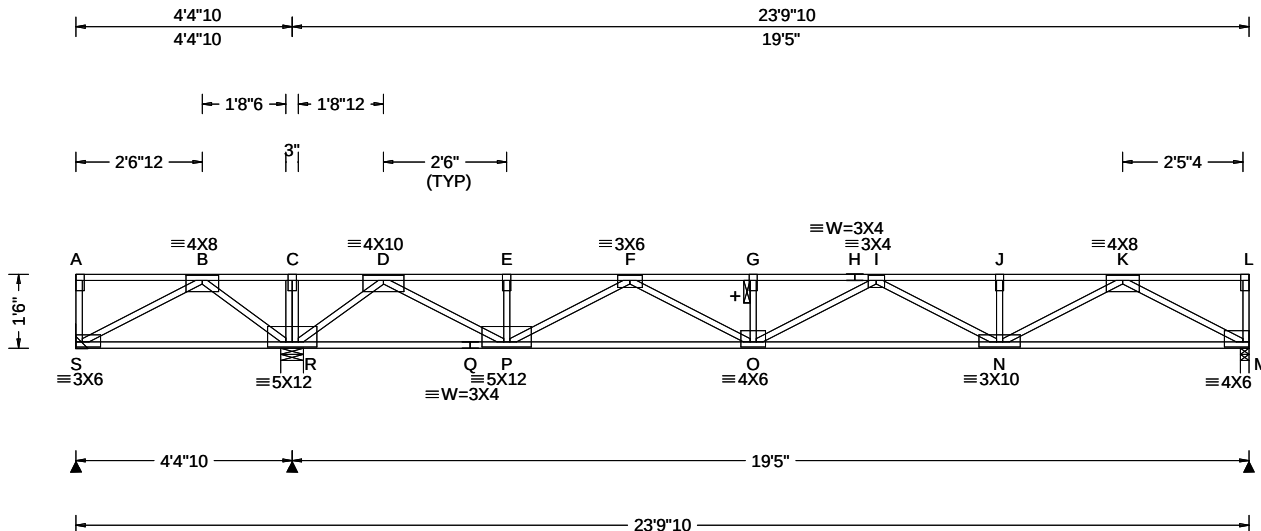


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Building 13

SEQN: 11860 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220697 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F18	Cust: R 9316 JRef: 1XdX93160012 T16 / DrwNo: 076.22.1330.02480 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.197 G 999 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.371 G 628 360	S - - /-458 -/- -/- -/- -/-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.021 M - -	R 1886 -/- -/- -/- -/- -/-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.039 M - -	M 844 -/- -/- -/- -/- -/-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	S Brg Wid = - Min Req = -
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.660	R Brg Wid = 5.5 Min Req = 1.5 (Truss)
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.796	M Brg Wid = 2.1 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.466	Bearings R & M are a rigid surface.
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Members not listed have forces less than 375#
	Loc. from endwall: NA	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	l: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17	Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: NA			

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords		Tens.Comp.	Chords		Tens. Comp.
S - R	0	-955	P - O	1987	0
R - Q	0	-427	O - N	2580	0
Q - P	0	-427	N - M	1352	0

Maximum Web Forces Per Ply (lbs)							
Webs		Tens.Comp.		Webs		Tens. Comp.	
S - B	1084	0	F - O	631	0		
B - R	0	- 1117	I - N	0	- 411		
R - D	0	- 1648	N - K	991	0		
D - P	1653	0	K - M	0	- 1535		
P - E	0	- 1085					



03/17/2022

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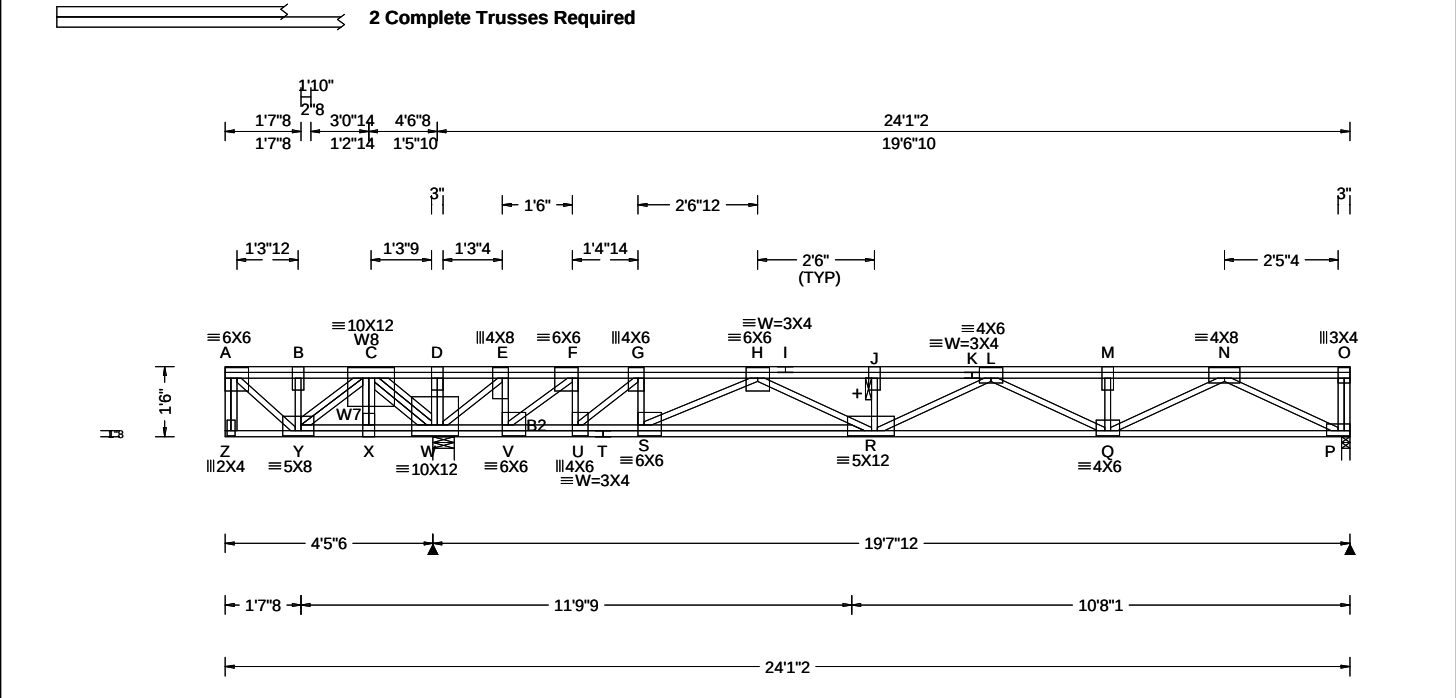
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Building 13

SEQN: 11862 / FROM:	SY42 Qty: 2	Ply: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F18G	Cust: R 9316 JRef:1XdX93160012 T17 / DrwNo: 076.22.1330.05097 / NDW 03/17/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria			▲ Maximum Reactions (lbs)							
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA			PP Deflection in loc L/defl L/#			Gravity			Non-Gravity				
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA			VERT(LL): 0.124 Z 435 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA			VERT(CL): 0.263 Z 204 360			W	8317	-/-	-/-	-/-	-/-	-/-	
BCDL: 10.00		Category: NA		Snow Duration: NA			HORZ(LL): -0.027 A - -			P	962	-/-165	-/-	-/-	-/-	-/-	
Des Ld: 75.00		EXP: NA Kzt: NA					HORZ(TL): 0.058 A - -			W Brg Wid = 5.5 Min Req = 1.5 (Truss)							
NCBCLL: 0.00		Mean Height: NA ft					Creep Factor: 2.0			P Brg Wid = 2.1 Min Req = 1.5 (Truss)							
Soffit: 0.00		TCDL: NA psf		Building Code:			Max TC CSI: 0.885			Bearings W & P are a rigid surface.							
Load Duration: 1.00		BCDL: NA psf		IBC 2018			Max BC CSI: 0.247			Members not listed have forces less than 375#							
Spacing: 16.0 "		MWFRS Parallel Dist: NA		TPI Std: 2014			Max Web CSI: 0.249			Maximum Top Chord Forces Per Ply (lbs)							
		C&C Dist a: NA ft		Rep Fac: Varies by Ld Case						Chords		Tens.Comp.		Chords		Tens. Comp.	
		Loc. from endwall: NA		FT/RT:12(0)/10(0)						A - B		420 0		H - I		1554 -1705	
		I: NA GCpi: NA		Plate Type(s):						B - C		420 0		I - J		1554 -1705	
		Wind Duration: NA		WAVE						C - D		4753 0		J - K		1551 -1711	
										D - E		4749 -367		K - L		534 -1347	
										E - F		4209 -367		L - M		534 -1347	
										F - G		3615 -827		M - N		534 -1347	
										G - H		3087 -1193		N - O		534 -1347	

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7,W8 4x2 DF-L 2400f-2.0E;

Special Loads
----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes
All plates are 3X6 except as noted.

Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



Maximum Bot Chord Forces Per Ply (lbs)							
Chords		Tens.Comp.		Chords		Tens. Comp.	
Y - X		0 - 1228		T - S		1169 - 3130	
X - W		0 - 1219		S - R		1563 - 2265	
W - V		329 - 4254		R - Q		1631 - 993	
V - U		793 - 3663		Q - P		784 - 222	
U - T		1169 - 3130					

Maximum Web Forces Per Ply (lbs)							
Webs		Tens.Comp.		Webs		Tens. Comp.	
A - Y	0	- 548	G - S	539	0		
Y - C	1053	0	S - H	0	- 1139		
C - W	0	- 4787	H - R	869	0		
W - E	0	- 999	R - L	89	- 626		
E - V	636	0	L - Q	518	- 321		
V - F	0	- 1035	Q - N	636	- 353		
F - U	652	0	N - P	250	- 860		
U - G	0	- 919					

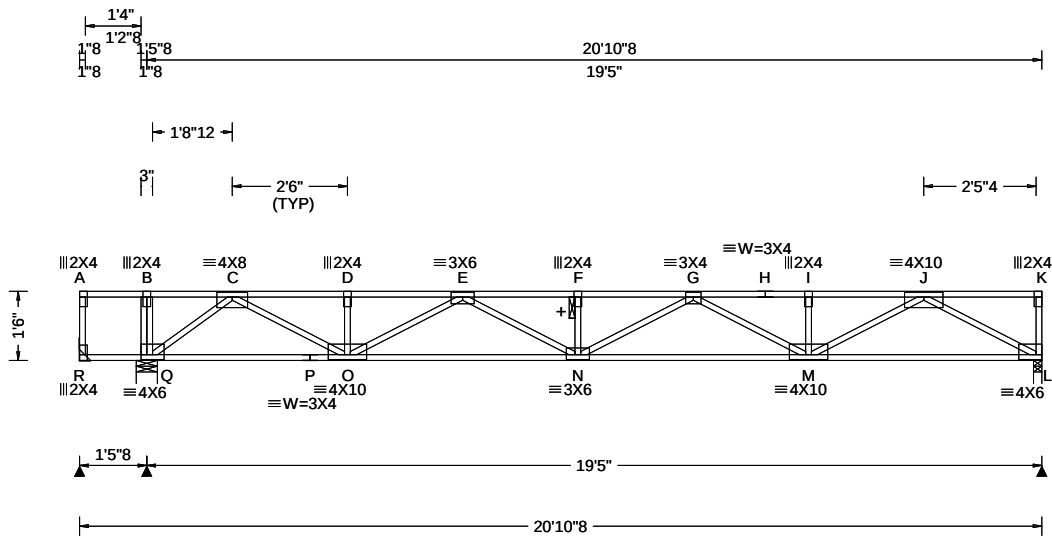
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AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 9758 / FROM:	SY42 Qty: 24	Ply: 1 Qty: 24	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F19	Cust: R 9316 JRef:1XdX93160012 T34 / DrwNo: 076.22.1330.11968 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.246 F 943 480 VERT(CL): 0.462 F 502 360 HORZ(LL): 0.038 L - - HORZ(TL): 0.072 L - - Creep Factor: 2.0 Max TC CSI: 0.485 Max BC CSI: 0.960 Max Web CSI: 0.397 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 27 /-42 /- /- /- /- Q 1134 /- /- /- /- /- L 962 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Truss must be installed as shown with top chord up.

C - D	0 - 2320	G - H	0 - 2651
D - E	0 - 2320	H - I	0 - 2651
E - F	0 - 3393	I - J	0 - 2651
F - G	0 - 3393		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Q - P	1089 0	N - M	3224 0
P - O	1089 0	M - L	1570 0
O - N	3055 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q - C	0 -1383	G - M	0 - 654
C - O	1407 0	M - J	1233 0
O - E	0 - 839	J - L	0 -1782
E - N	387 0		

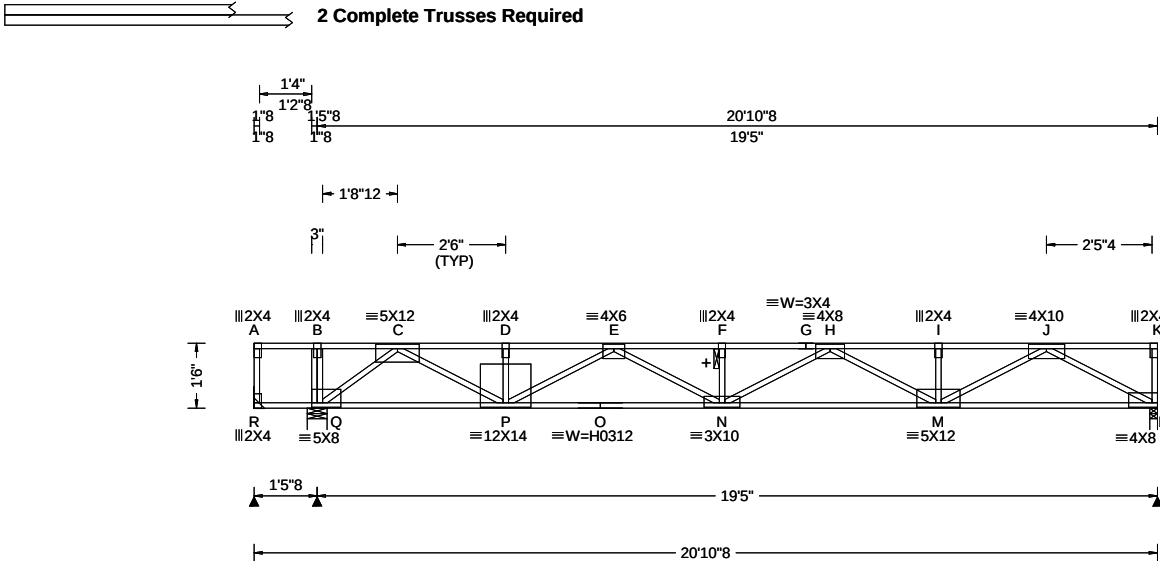


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Building 13

SEQN: 9760 / FROM:	SY42 Qty: 4	Job Number: JB-220697 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F19G	Cust: R 9316 JRef:1XdX93160012 T8 / DrwNo: 076.22.1330.11961 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.290 F 799 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.545 F 426 360	R 24 /-58 /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.041 C - -	Q 3942 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.076 C - -	L 1997 /- /- /- /- /-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	R Brg Wid = - Min Req = -
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.583	Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.585	L Brg Wid = 2.1 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Varies by Ld Case	Max Web CSI: 0.629	Bearings Q & L are a rigid surface.
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Members not listed have forces less than 375#
	Loc. from endwall: NA	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	I: NA GCpi: NA			Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: NA	WAVE. HS	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
 TC: From 87 plf at 0.00 to 87 plf at 20.88
 BC: From 13 plf at 0.00 to 13 plf at 20.88
 TC: 443 lb Conc. Load at 0.94
 TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27
 7.60, 8.94, 10.27, 11.60, 12.94

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



03/17/2022

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)					
Web	Tens.Comp.		Web	Tens. Comp.	
B - Q	0	-465	F - N	0	-473
Q - C	0	-2340	N - H	753	0
C - P	2229	0	H - M	0	-1437
D - P	0	-467	M - J	1679	0
P - E	0	-1242	J - L	0	-1984

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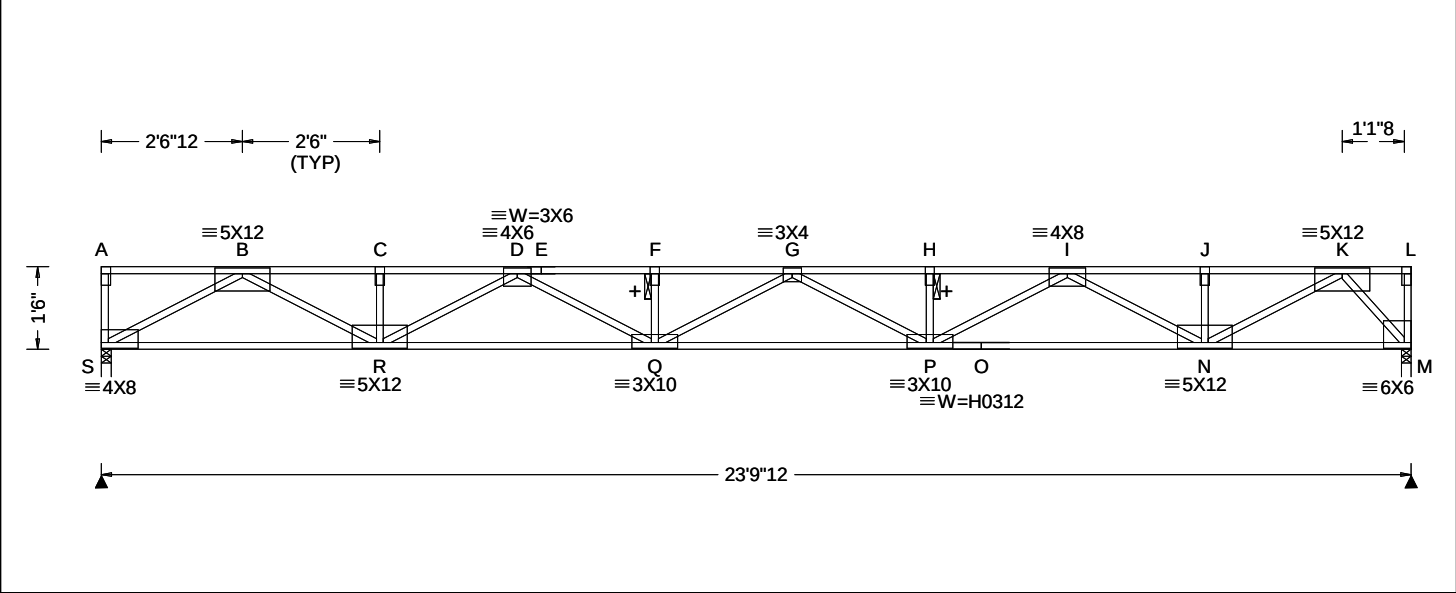
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Building 13

SEQN: 11864 / FROM:	SY42 Qty: 32	Ply: 1 Qty: 32	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F21	Cust: R 9316 JRef:1XdX93160012 T19 / DrwNo: 076.22.1330.02456 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.419 G 682 480 VERT(CL): 0.785 G 364 360 HORZ(LL): 0.056 M - - HORZ(TL): 0.104 M - - Creep Factor: 2.0 Max TC CSI: 0.442 Max BC CSI: 0.664 Max Web CSI: 0.556 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL S 1191 /- /- /- /- /- M 1191 /- /- /- /- /- S Brg Wid = 2.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3491 G - H 0 - 4826 C - D 0 - 3491 H - I 0 - 4826 D - E 0 - 5062 I - J 0 - 2773 E - F 0 - 5062 J - K 0 - 2773 F - G 0 - 5062

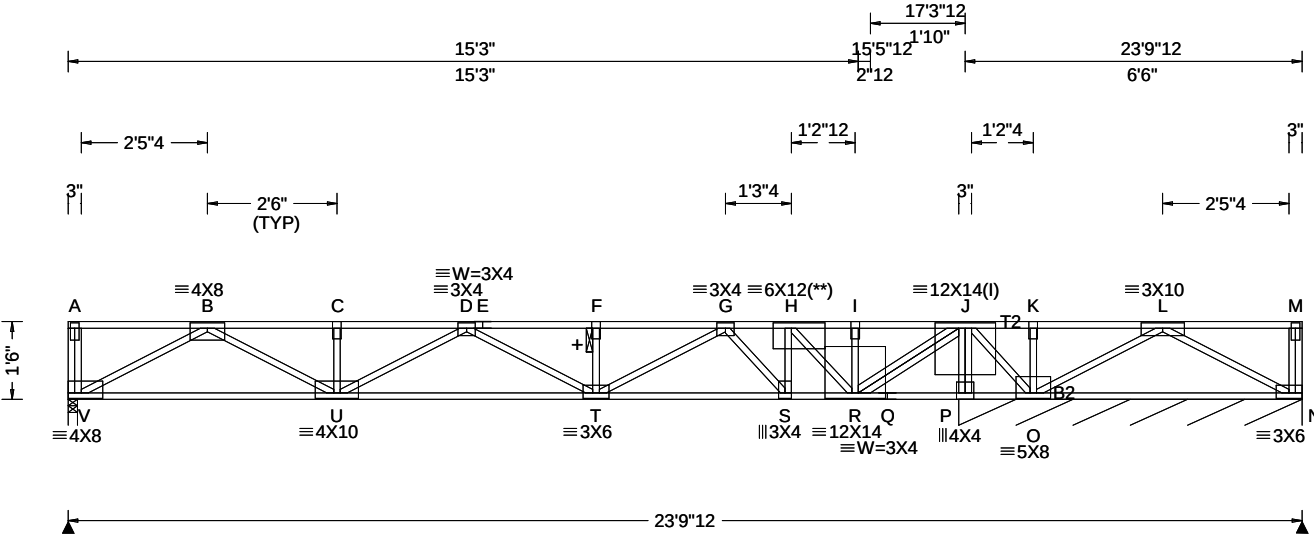
Lumber Top chord: 4x2 SPF 2100f-1.8E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;	Plating Notes All plates are 2X4 except as noted.	Deflection Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. S - R 1995 0 P - O 4000 0 R - Q 4479 0 O - N 4000 0 Q - P 5145 0 N - M 1047 0
				Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - B 0 - 2264 P - I 942 0 B - R 1707 0 I - N 0 - 1401 R - D 0 - 1127 N - K 1969 0 D - Q 665 0 K - M 0 - 1557



03/17/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	 514 Earth City Expressway Suite 242 Earth City, Missouri 63045
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SEQN: 11866 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F22	Cust: R 9316 JRef:1XdX93160012 T2 / DrwNo: 076.22.1330.05301 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: No FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.179 F 999 480 VERT(CL): 0.335 F 613 360 HORZ(LL): 0.026 B - - HORZ(TL): 0.049 B - - Creep Factor: 2.0 Max TC CSI: 0.504 Max BC CSI: 0.472 Max Web CSI: 0.548 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL V 961 /- /- /- /- /- N* 441 /- /- /- /- /- N /-246 V Brg Wid = 2.1 Min Req = 1.5 (Truss) N Brg Wid = 79.5 Min Req = - Bearings V & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -2565 G - H 0 -2521 C - D 0 -2565 H - I 0 -698 D - E 0 -3256 I - J 0 -698 E - F 0 -3256 J - K 1825 0 F - G 0 -3256 K - L 1825 0

Lumber
Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;
Special Loads
----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 23.81
BC: From 13 plf at 0.00 to 13 plf at 23.81
TC: 1500 lb Conc. Load at 13.90

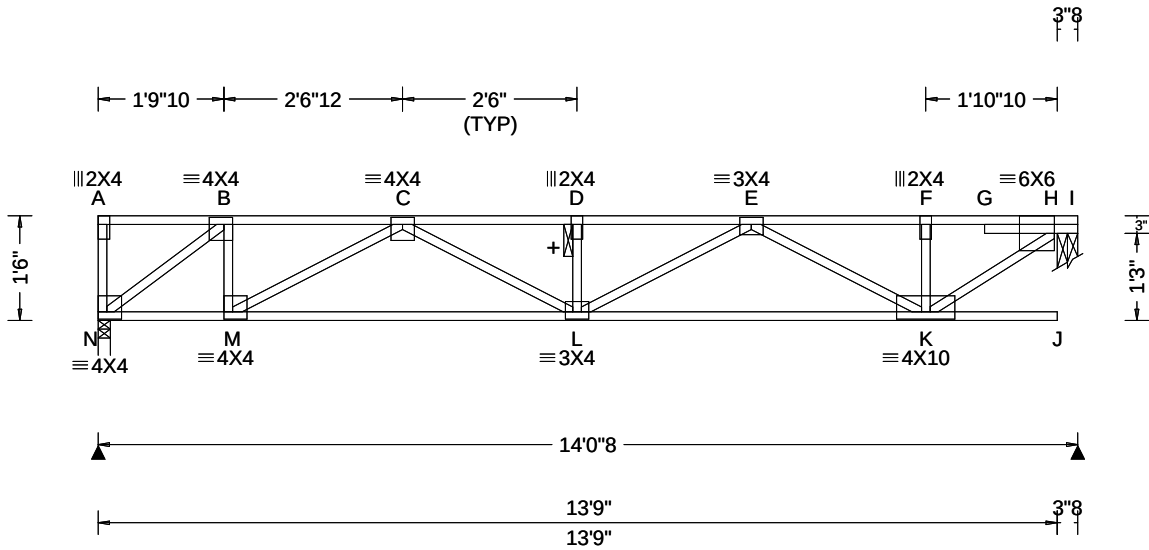
Plating Notes
All plates are 2X4 except as noted.
(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



Building 13

SEQN: 11868 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F23	Cust: R 9316 JRef:1XdX93160012 T25 / DrwNo: 076.22.1330.03810 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.092 D 999 480 VERT(CL): 0.172 D 970 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.029 B - - Creep Factor: 2.0 Max TC CSI: 0.613 Max BC CSI: 0.522 Max Web CSI: 0.325 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 694 /- /- /- /- /- H 707 /- /- /- /- /- N Brg Wid = 2.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -869 E - F 0 -931 C - D 0 -1793 F - H 0 -930 D - E 0 -1793

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	831	L - K	1548
M - L	1525		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1045	E - K	0 -704
B - M	425	K - H	1152
M - C	0 -752		0



03/17/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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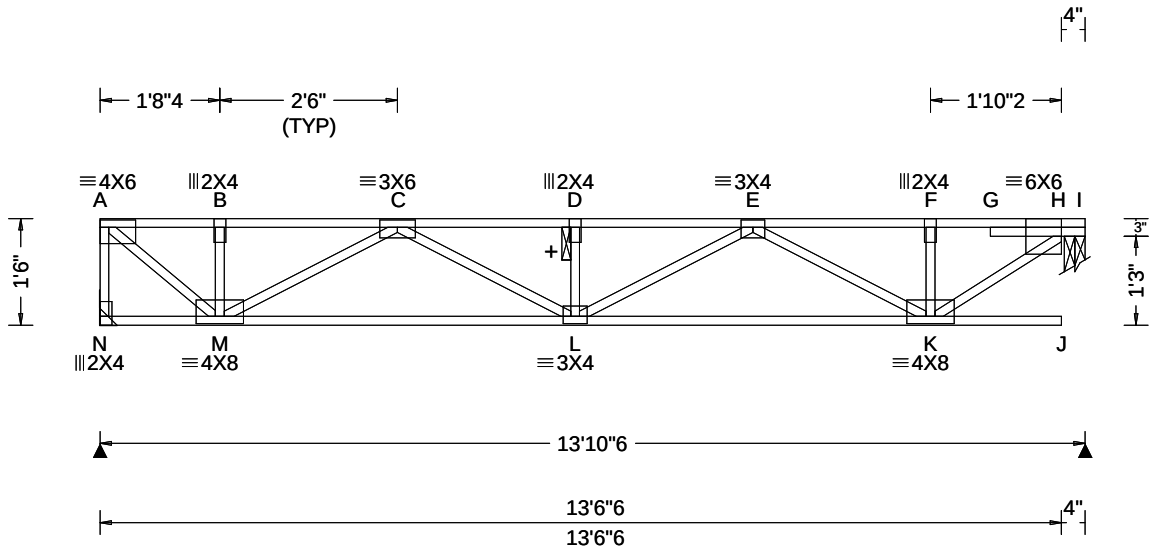
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Building 13

SEQN: 11870 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F24	Cust: R 9316 JRef:1XdX93160012 T3 / DrwNo: 076.22.1330.02481 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.090 D 999 480 VERT(CL): 0.167 D 982 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.604 Max BC CSI: 0.513 Max Web CSI: 0.320 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 685 /- /- /- /- /- H 697 /- /- /- /- /- N Brg Wid = - Min Req = - H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -776 D - E 0 -1749 B - C 0 -776 E - F 0 -917 C - D 0 -1749 F - H 0 -916

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1463 0	L - K	1518 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -684	E - K	0 -687
A - M	1001 0	K - H	1134 0
M - C	0 -784		



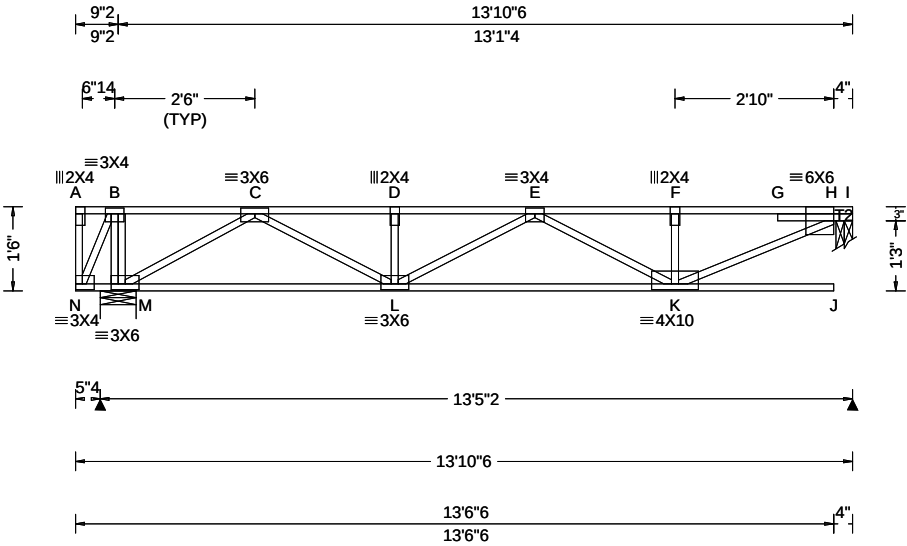
03/17/2022

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Building 13

SEQN: 11872 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F25	Cust: R 9316 JRef:1XdX93160012 T11 / DrwNo: 076.22.1330.04335 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 J 784 480 VERT(CL): 0.316 J 488 360 HORZ(LL): 0.013 A - - HORZ(TL): 0.024 A - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.630 Max Web CSI: 0.367 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity M 729 /- /- /- /- /- H 659 /- /- /- /- /- M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 0 - 1447 E - F 0 - 1177 D - E 0 - 1447 F - H 0 - 1178 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 912 0 L - K 1482 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. M - C 0 - 1015 K - H 1301 0 C - L 614 0

Lumber
Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging
recommendations.
Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.
Truss must be installed as shown with top chord up.



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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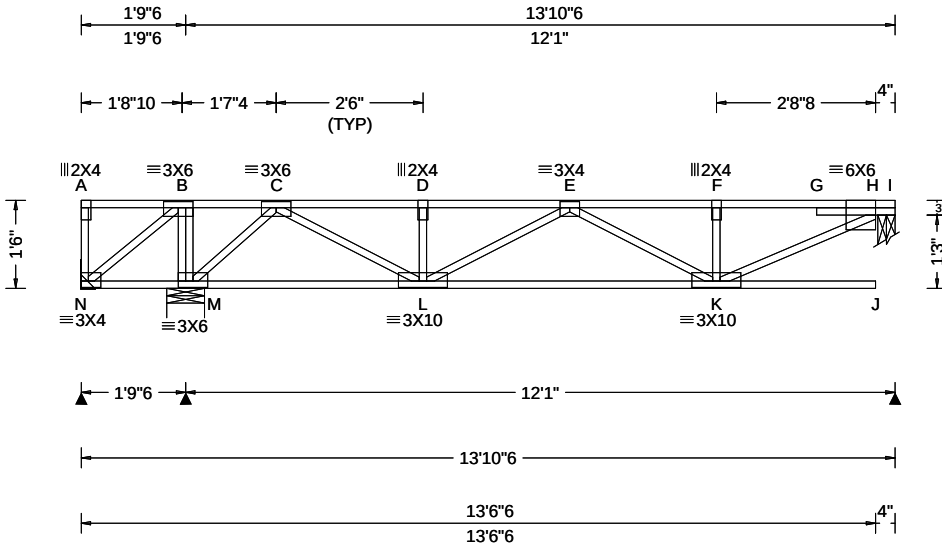
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ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11874 / FROM:	SY42 Ply: 1 Qty: 2	Job Number: JB-220697 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F26	Cust: R 9316 JRef: 1XdX93160012 T5 / DrwNo: 076.22.1330.02534 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.158 J 897 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.249 J 570 360	N - /-358 /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.007 C - -	M 1154 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.013 C - -	H 547 /- /- /- /- /-
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	N Brg Wid = - Min Req = -
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.823	M Brg Wid = 7.7 Min Req = 1.5 (Truss)
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.493	H Brg Wid = 3.5 Min Req = 1.5 (Truss)
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes	Max Web CSI: 0.284	Bearings M & H are a rigid surface.
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Members not listed have forces less than 375#
	Loc. from endwall: NA	Plate Type(s):		Maximum Top Chord Forces Per Ply (lbs)
	l: NA GCpi: NA			Chords Tens.Comp. Chords Tens. Comp.
	Wind Duration: NA	WAVE	VIEW Ver: 21.02.00.1005:17	

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.



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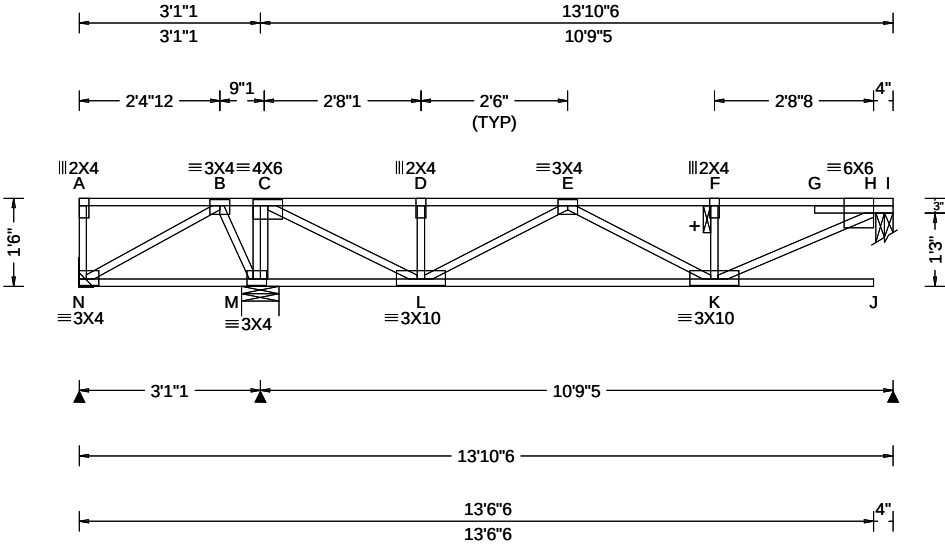
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ALPINE
AN ITW COMPANY
514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11876 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F27	Cust: R 9316 JRef:1XdX93160012 T9 / DrwNo: 076.22.1330.02483 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 869 480 VERT(CL): 0.233 J 549 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.748 Max BC CSI: 0.436 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 44 /-139 /- /- /- /- M 963 /- /- /- /- /- H 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 427 0 E - F 0 -782 C - D 0 -495 F - H 0 -784 D - E 0 -495

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)		
Chords	Tens.Comp.	
L - K	815	0

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	- 633	K - H	872	0
C - L	964	0			



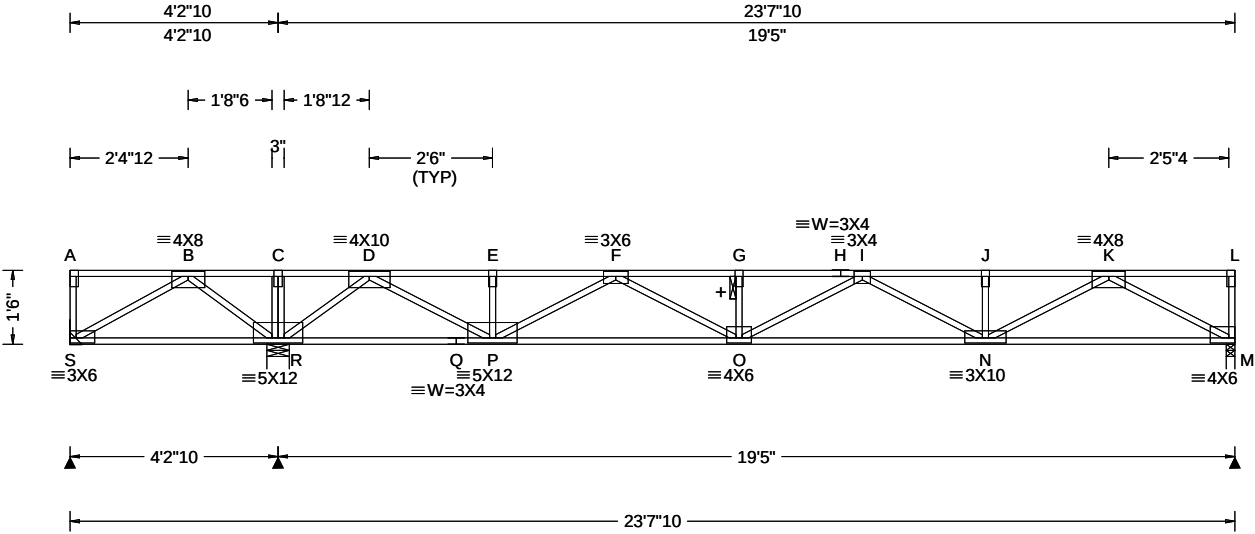
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Building 13

SEQN: 11878 / FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F28	Cust: R 9316 JRef:1XdX93160012 T10 / DrwNo: 076.22.1330.02479 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
				Gravity			Non-Gravity				
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.196 G 999 480	S	-	/-490	/-	/-	/-	/-	
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.369 G 630 360	R	1906	/-	/-	/-	/-	/-	
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.021 M - -	M	843	/-	/-	/-	/-	/-	
Des Ld: 75.00	EXP: NA Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	HORZ(TL): 0.039 M - -	S	Brg Wid = -		Min Req = -				
NCBCLL: 0.00	Mean Height: NA ft		Creep Factor: 2.0	R	Brg Wid = 5.5		Min Req = 1.5 (Truss)				
Soffit: 0.00	TCDL: NA psf		Max TC CSI: 0.660	M	Brg Wid = 2.1		Min Req = 1.5 (Truss)				
Load Duration: 1.00	BCDL: NA psf		Max BC CSI: 0.795	Bearings R & M are a rigid surface.							
Spacing: 16.0 "	MWFRS Parallel Dist: NA		Max Web CSI: 0.467	Members not listed have forces less than 375#							
	C&C Dist a: NA ft			Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: NA			Chords		Tens.Comp.		Chords		Tens. Comp.	
	I: NA GCpi: NA		VIEW Ver: 21.02.00.1005.17	B	C	G	H	C	U	R	L
	Wind Duration: NA			1762	0	0	11	0	0	2537	

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Negative reaction(s) of -490# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
S - R	0	-944	P - O	1976	0
R - Q	0	-440	O - N	2573	0
Q - P	0	-440	N - M	1350	0

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.		Webs	Tens. Comp.	
S - B	1088	0	F - O	633	0
B - R	0	-1142	I - N	0	-408
R - D	0	-1649	N - K	988	0
D - P	1656	0	K - M	0	-1532
P - F	0	-1087			



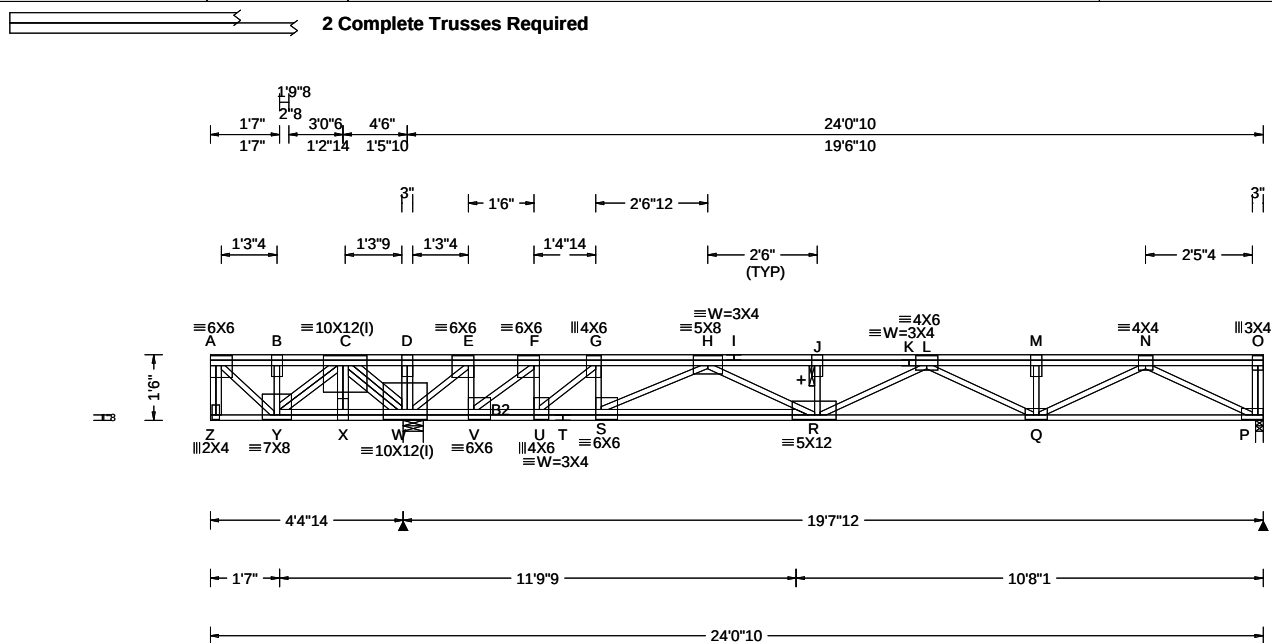
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Building 13

SEQN: 11880 / FROM:	SY42 Ply: 2 Qty: 2	Job Number: JB-220697 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: F28G	Cust: R 9316 JRef: 1XdX93160012 T12 / DrwNo: 076.22.1330.02482 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.120 A 443 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.268 Z 198 360	W 8750 /- /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.025 A - -	P 618 /-243 /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.057 A - -	W Brg Wid = 5.5 Min Req = 1.5 (Truss)
NCBCLL: 0.00	Mean Height: NA ft		Creep Factor: 2.0	P Brg Wid = 2.1 Min Req = 1.5 (Truss)
Soffit: 0.00	TCDL: NA psf	Building Code:	Max TC CSI: 0.433	Bearings W & P are a rigid surface.
Load Duration: 1.00	BCDL: NA psf	IBC 2018	Max BC CSI: 0.260	Members not listed have forces less than 375#
Spacing: 16.0 "	MWFRS Parallel Dist: NA	TPI Std: 2014	Max Web CSI: 0.271	Maximum Top Chord Forces Per Ply (lbs)
	C&C Dist a: NA ft	Rep Fac: No		Chords Tens.Comp. Chords Tens. Comp.
	Loc. from endwall: NA	FT/RT:12(O)/10(O)		A - B 597 0 H - I 1855 -383
	l: NA GCpi: NA	Plate Type(s):		B - C 597 0 I - J 1855 -383
	Wind Duration: NA	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.05
BC: From 13 plf at 0.00 to 13 plf at 24.05
TC: 1129 lb Conc. Load at 0.12
TC: 5500 lb Conc. Load at 3.03

Plating Notes

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.



▲ Maximum Reactions (lbs)
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200
5300
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5600
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7200
7300
7400
7500
7600
7700
7800
7900
8000
8100
8200
8300
8400
8500
8600
8700
8800
8900
9000
9100
9200
9300
9400
9500
9600
9700
9800
9900
10000

Gravity				Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
W	8750	/-	/-	/-	/-	/-
P	618	/-243	/-	/-	/-	/-
W	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
P	Brg Wid = 2.1 Min Req = 1.5 (Truss)					
Bearings W & P are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.Comp.		Chords	Tens.	Comp.	
A - B	597	0	H - I	1855	-383	
B - C	597	0	I - J	1855	-383	
C - D	5342	0	J - K	1853	-389	
D - E	5337	0	K - L	1853	-389	
E - F	4767	0	L - M	685	-689	
F - G	4126	0	M - N	685	-689	
G - H	3551	0				

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Y - X	0 -1645	T - S	0 -3597
X - W	0 -1635	S - R	0 -2646
W - V	0 -4815	R - Q	647 -1215
V - U	0 -4178	Q - P	456 -296
U - T	0 -3597		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens.	Comp.
A - Y	0 - 789	G - S	577	0
Y - C	1366 0	S - H	0	- 1230
C - W	0 - 5021	H - R	961	0
W - E	0 - 1030	R - L	0	- 716
E - V	677 0	L - Q	599	0
V - F	0 - 1093	Q - N	264	- 439
F - U	694 0	N - P	330	- 495
U - G	0 - 980			

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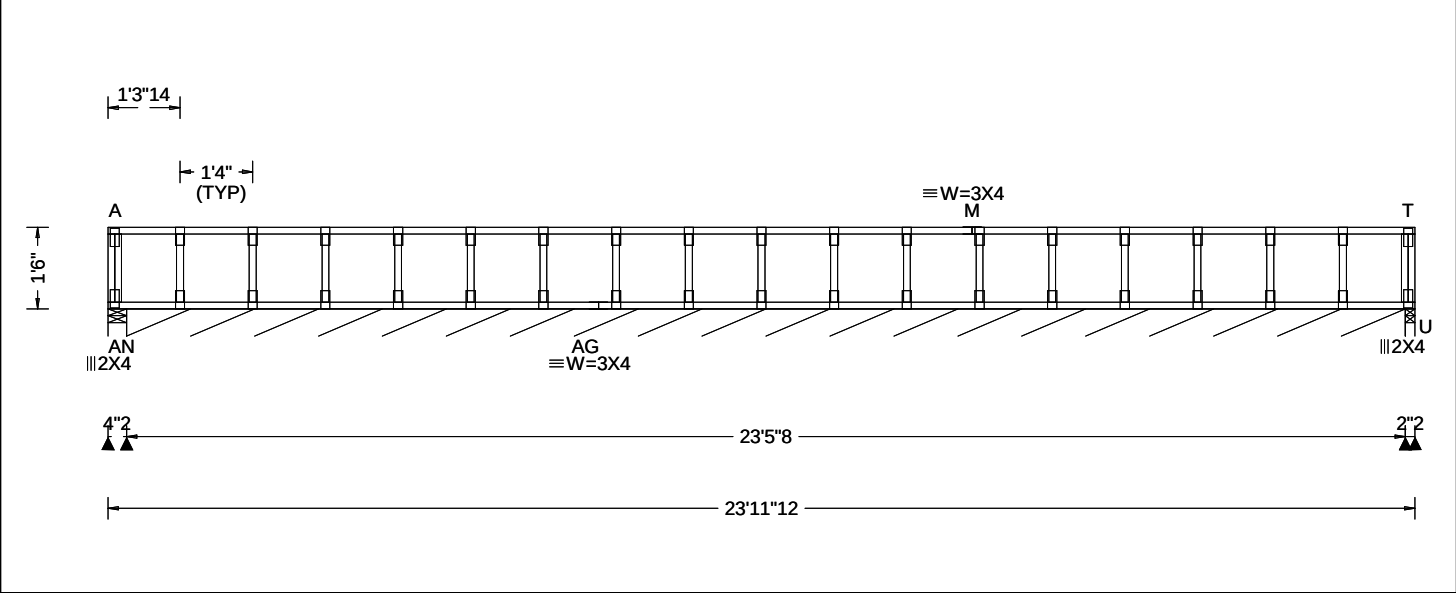
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Building 13

SEQN: 11882 / FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L11	Cust: R 9316 JRef:1XdX93160012 T29 / DrwNo: 076.22.1330.04217 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF					
				Gravity			Non-Gravity		
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.000 T 999 480	AN 68	/-	/-	/-	/-	/-
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.001 T 999 360	AN*97	/-	/-	/-	/-	/-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): -0.003 B - -	U 64	/-	/-	/-	/-	/-
Des Ld: 75.00	EXP: NA Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	HORZ(TL): 0.005 B - -	AN Brg Wid = 4.1 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: NA ft		Creep Factor: 2.0	AN Brg Wid = 281 Min Req = -					
Soffit: 0.00	TCDL: NA psf		Max TC CSI: 0.060	U Brg Wid = 2.1 Min Req = 1.5 (Truss)					
Load Duration: 1.00	BCDL: NA psf		Max BC CSI: 0.013	Bearings AN, AN, & U are a rigid surface.					
Spacing: 16.0 "	MWFRS Parallel Dist: NA		Max Web CSI: 0.018	Members not listed have forces less than 375#					
	C&C Dist a: NA ft		VIEW Ver: 21.02.00.1005.17						
	Loc. from endwall: NA								
	I: NA GCpi: NA								
	Wind Duration: NA								

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing
Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



03/17/2022

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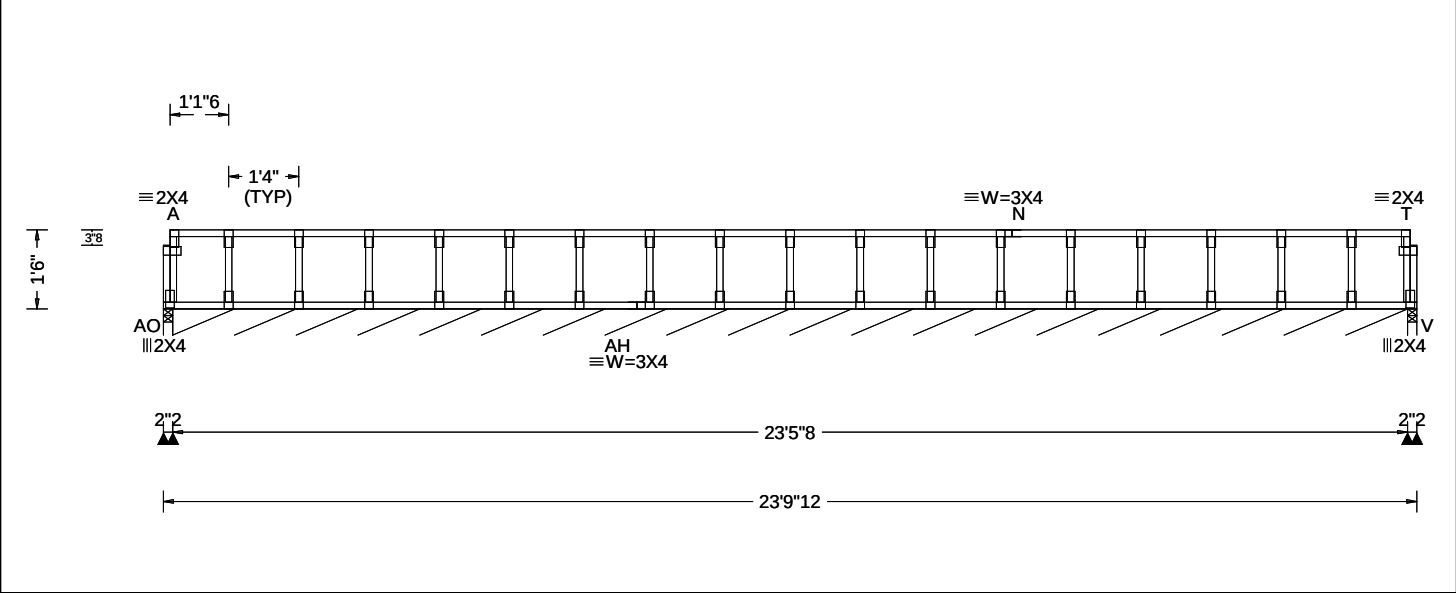
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514 Earth City Expressway
Suite 242
Earth City, Missouri 63045

Building 13

SEQN: 11884 / FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220697 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L21	Cust: R 9316 JRef:1XdX93160012 T30 / DrwNo: 076.22.1330.04838 / NDW 03/17/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.000 T 999 360 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.009 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL AO 48 -/-/-/-/- AO*97 -/-/-/-/- V 48 -/-/-/-/- AO Brg Wid = 2.1 Min Req = 1.5 (Truss) AO Brg Wid = 281 Min Req = - V Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AO, AO, & V are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.
Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.
Provide for complete drainage of roof.
Truss must be installed as shown with top chord up.



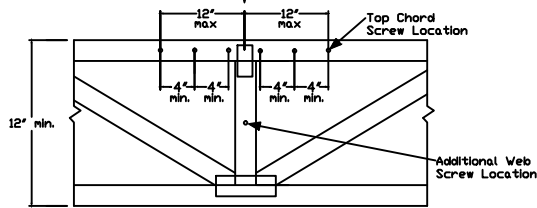
03/17/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org	514 Earth City Expressway Suite 242 Earth City, Missouri 63045
--	---

System 42 Ply to Ply Connection Detail

Using GRK (RSS) JTS 1/4x6-3/4 or Simpson SDS25600 or SDW22634 Strong Drive Screws or Equal.

Max. Concentrated Load per Chart Below

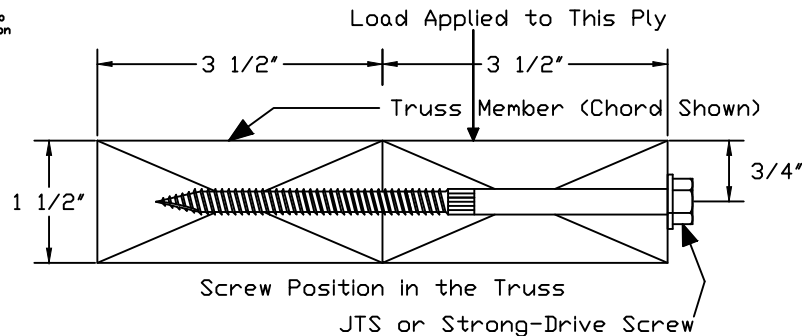


Apply screws to top chord within 12" of the concentrated load location @ 4" o.c., min, evenly distributing them to each side of the concentrated load. A maximum of 6 screws may be applied to the top chord for each concentrated load.

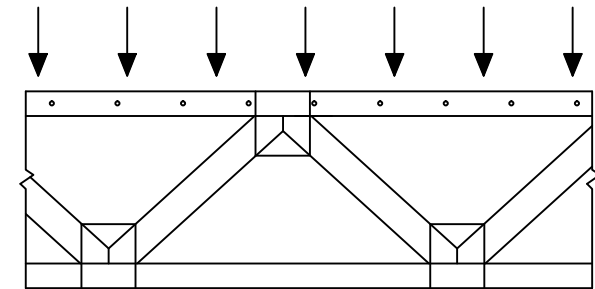
For double top chords, evenly distribute the screws over both top chords, using same spacing guidelines specified above. The max number of top chord screws is 6 per chord member for a total maximum of 12 screws.

If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3" min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

Refer to Alpine sealed drawing for individual truss design.



Max. Uniform Load per Chart Below



For single top chord, see chart below for screw spacing. For double top chord the screw spacing may be doubled (but may not exceed 24" o.c. per chord). Screw spacing shall be offset by 1/2 the o.c. spacing in each chord.

Screws need only apply to the extents of that load.

For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

General Notes:

1. Screws centered along the 1.5" dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1" to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200



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For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com TPI: www.tpinet.org SBCA: www.sbcindustry.org ICC: www.iccsafe.org

TC LL	PSF	REF	SY42 Connection
TC DL	PSF	DATE	01/19/2018
BC DL	PSF	DRWG	CNSY42PL0118
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

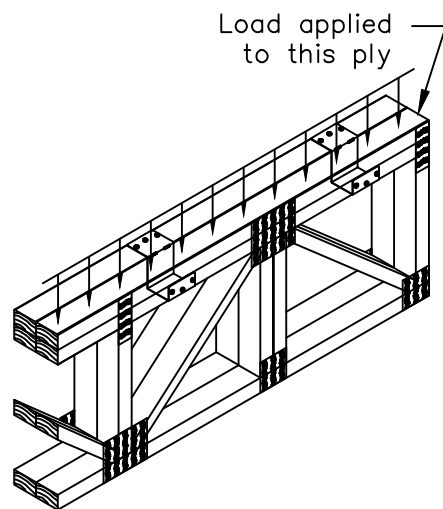


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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

SY32/SY42 PLY TO PLY LSC CONNECTION DETAIL FOR DOWNWARD LOADS ONLY

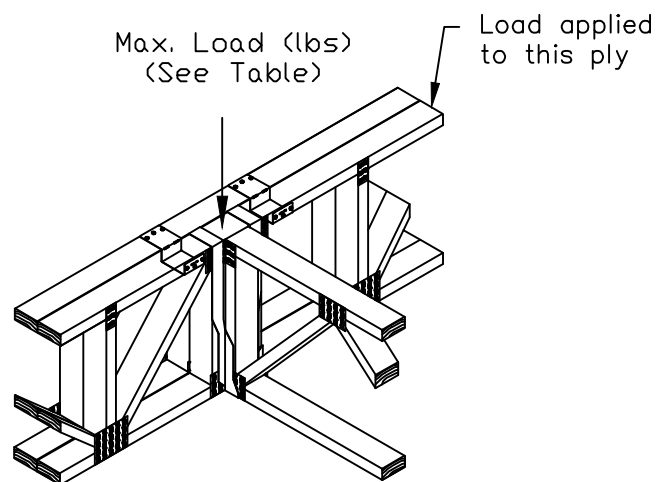
Uniform Load Application



Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12" o.c.
625	540	390	18" o.c.
470	405	295	24" o.c.
375	325	235	30" o.c.

Maximum LSC spacing is 30" o.c.

Concentrated Load Application



Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

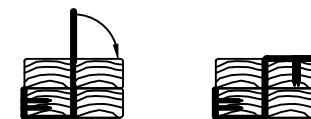
Note:
Install LSC adjacent, equidistant, and not more than 6" on each side of concentrated load.

Installation Instructions:

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.
2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.



LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for individual truss design.



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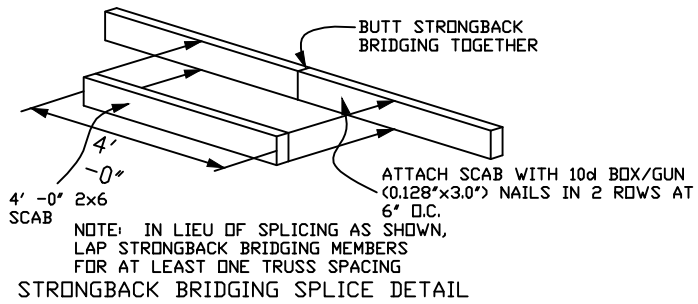
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REF SY42 Connection	
DATE	10/01/14
DRWG	LSCSYX2A1014
DUR. FAC.	ALL

STRONGBACK BRIDGING RECOMMENDATIONS

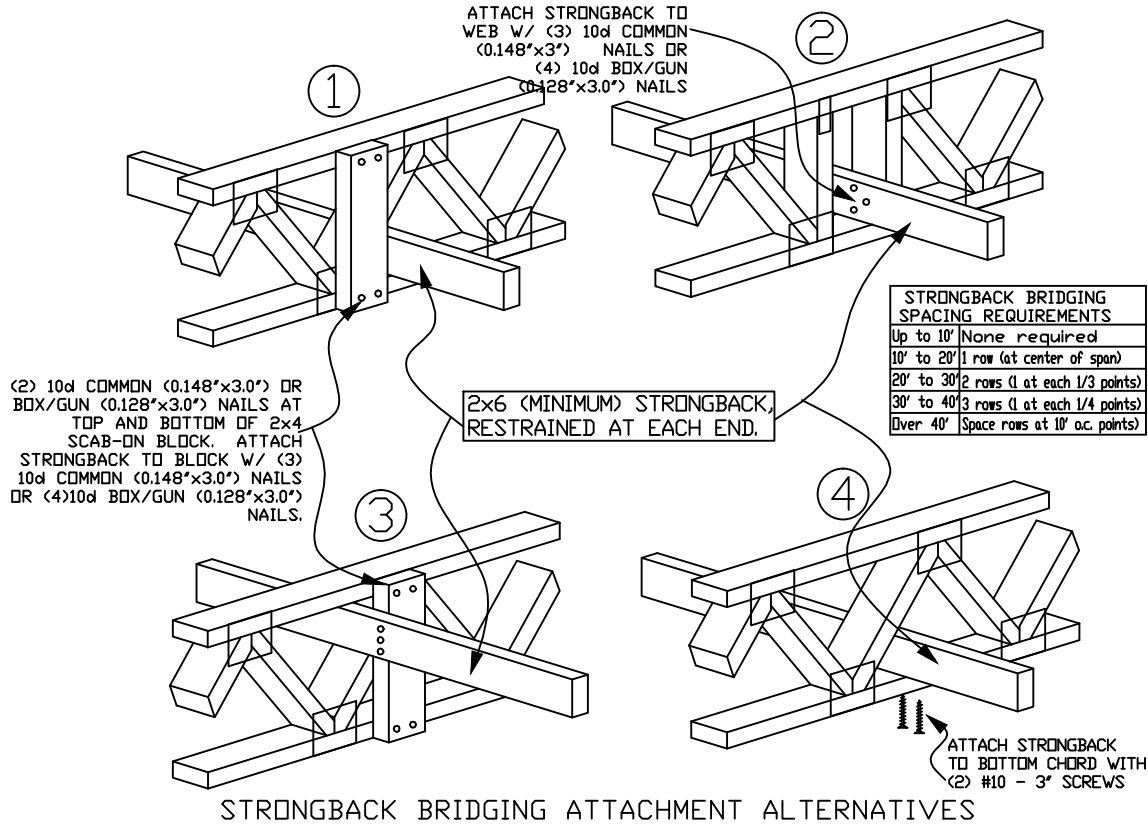


- ▶ All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- ▶ All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- ▶ The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- ▶ The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

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TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			





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BOB D. CAMPBELL & CO., INC.

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Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 13 Truss	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

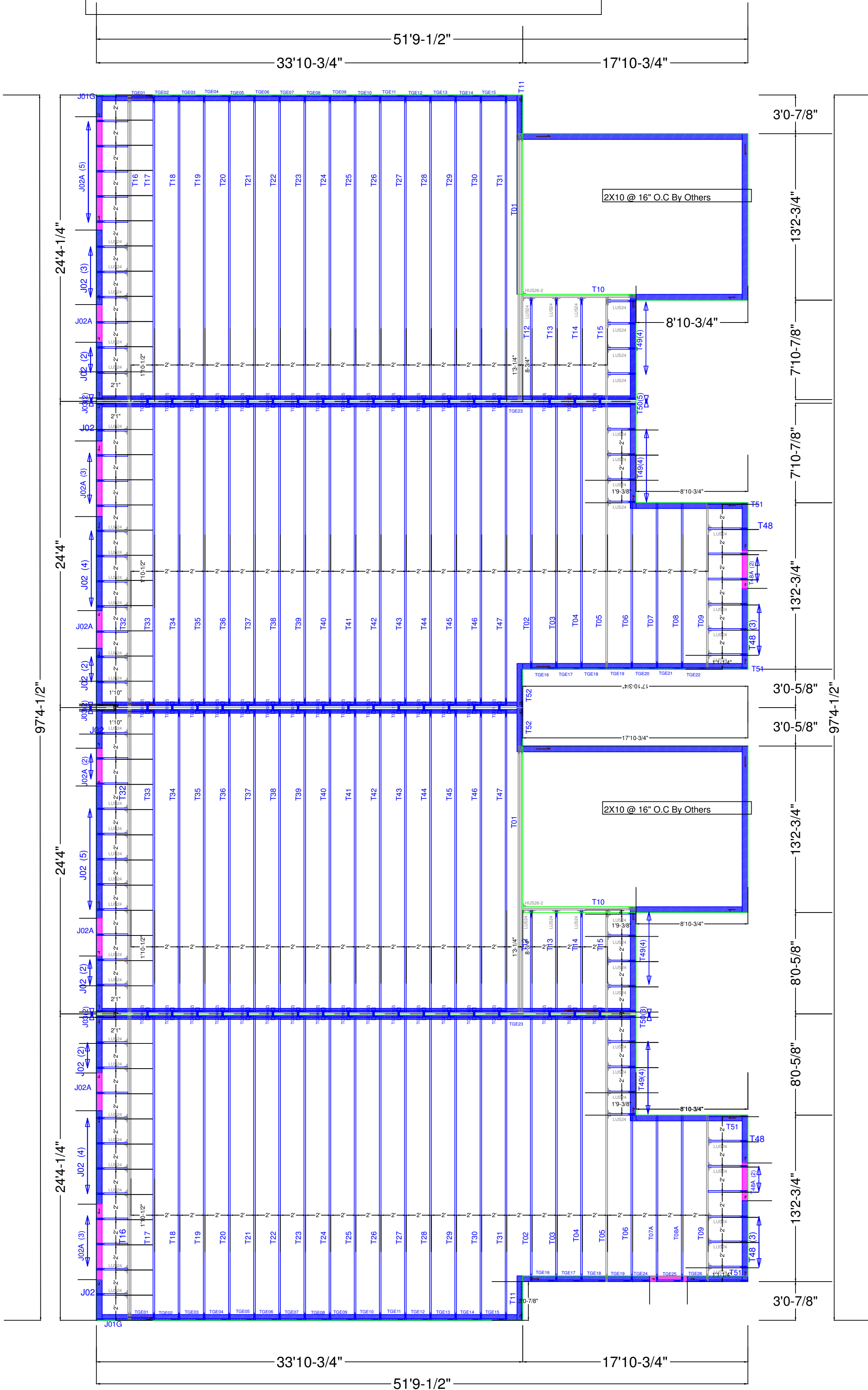
Group 13 Roof Layout

Total Truss Quantity = 349.

Total Plan Area with OHs = 4539 sq.ft

HANGER CHART

Symbol	Name	Qty	Manufacturer
= HUS26-2		2	Simpson
= LUS24		78	Simpson



SHOP DRAWING REVIEW

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

☐ APPROVED

☐ FURNISH AS CORRECTED

☐ REJECTED, REVISE & RESUBMIT

☐ RETURNED, NOT REVIEWED

☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY.
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 05/30/2022 BY: CB

REVIEWED ☒ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 8/12/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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



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St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses



NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss

Job Name: McCambridge Brothers Construction

Customer: MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Designer: Juan R Quiroz
Reference #: JB-220698

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Date: 5/21/2022



05/22/2022

REVIEWED ☒ DATE RECEIVED: 8/12/2022
REVIEWED AS NOTED ☐
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/30/2022 BY: CB

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Clonville, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220698
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:			
Design Code: IBC 2018		IntelliVIEW Version: 21.02.00	
		JRef #: 1XfQ93160001	
Wind Standard: ASCE 7-16	Wind Speed (mph): 109	Design Loading (psf): 40.00, 65.00	
Building Type: Closed			

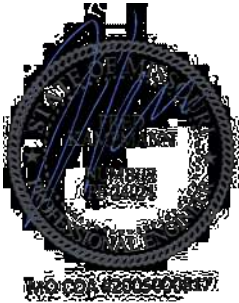
This package contains general notes pages, 85 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	142.22.1734.11900	J01G	2	142.22.1734.14477	J02
3	142.22.1734.16460	J03	4	142.22.1734.18583	T01
5	142.22.1734.23347	T02	6	142.22.1734.27603	T03
7	142.22.1734.30133	T04	8	142.22.1734.33283	T05
9	142.22.1734.58913	T06	10	142.22.1735.38470	T07
11	142.22.1735.40457	T08	12	142.22.1735.45817	T10
13	142.22.1735.49240	T11	14	142.22.1735.52497	T12
15	142.22.1735.54660	T13	16	142.22.1735.56590	T14
17	142.22.1735.58717	T15	18	142.22.1736.01310	T17
19	142.22.1736.03657	T18	20	142.22.1736.06263	T19
21	142.22.1736.08437	T20	22	142.22.1736.11053	T21
23	142.22.1736.13263	T22	24	142.22.1736.26467	T23
25	142.22.1736.28763	T24	26	142.22.1736.31153	T25
27	142.22.1736.33737	T26	28	142.22.1736.36057	T27
29	142.22.1736.38320	T28	30	142.22.1736.41100	T29
31	142.22.1736.43433	T30	32	142.22.1736.45693	T31
33	142.22.1736.49590	T33	34	142.22.1736.51790	T34
35	142.22.1736.54197	T35	36	142.22.1736.56857	T36
37	142.22.1736.59167	T37	38	142.22.1737.01483	T38
39	142.22.1737.03983	T39	40	142.22.1737.06173	T40
41	142.22.1737.08863	T41	42	142.22.1737.11367	T42
43	142.22.1737.14090	T43	44	142.22.1737.16577	T44
45	142.22.1737.19050	T45	46	142.22.1737.23047	T46
47	142.22.1737.25340	T47	48	142.22.1737.27283	T48
49	142.22.1737.29410	T49	50	142.22.1737.31510	T50

Alpine, an ITW company
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North Building, 4th Floor
Glenview, IL 60025
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alpineitw.com



05/22/2022



Site Information:	Page 2:
Customer: Mill Creek Truss	Job Number: JB-220698
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	142.22.1737.33463	T51
53	142.22.1737.39840	TGE01
55	142.22.1737.43777	TGE03
57	142.22.1737.48643	TGE05
59	142.22.1739.11650	TGE07
61	142.22.1739.17153	TGE09
63	142.22.1739.21473	TGE11
65	142.22.1739.26023	TGE13
67	142.22.1739.30243	TGE15
69	142.22.1739.34360	TGE17
71	142.22.1739.38677	TGE19
73	142.22.1739.42963	TGE21
75	142.22.1739.47293	TGE23
77	142.22.1739.51830	TGE26
79	142.22.1739.56427	T16
81	142.22.1740.00900	J02A
83	142.22.1740.05523	TGE25
85	142.22.1740.27283	T07A
87	GABRST160118	
89	BRCLBSUB0119	

Item	Drawing Number	Truss
52	142.22.1737.37840	T52
54	142.22.1737.41873	TGE02
56	142.22.1737.45910	TGE04
58	142.22.1737.50750	TGE06
60	142.22.1739.14110	TGE08
62	142.22.1739.19383	TGE10
64	142.22.1739.24007	TGE12
66	142.22.1739.28127	TGE14
68	142.22.1739.32407	TGE16
70	142.22.1739.36450	TGE18
72	142.22.1739.41033	TGE20
74	142.22.1739.45187	TGE22
76	142.22.1739.49803	TGE24
78	142.22.1739.53913	T09
80	142.22.1739.58860	T32
82	142.22.1740.02947	T48A
84	142.22.1740.07960	T08A
86	A11530ENC160118	
88	GBLLETIN0118	
90	DEFLCAMB1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

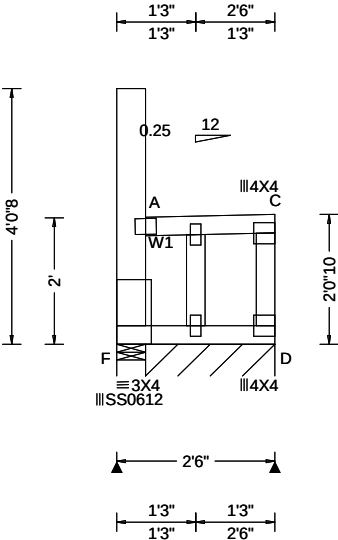
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 13

SEQN: 37349 FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J01G	Cust: R 9316 JRef:1XIQ93160001 T208 DrwNo: 142.22.1734.11900 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): 18SS, WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 A 999 360 VERT(CL): 0.007 A 999 240 HORZ(LL): 0.092 A - - HORZ(TL): 0.105 A - - Creep Factor: 2.0 Max TC CSI: 0.129 Max BC CSI: 0.373 Max Web CSI: 0.164 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				F	47	/-	/-	/124	/146	/99
				D*	134	/-	/-	/130	/58	/-

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.
Truss must be installed as shown with top chord up.



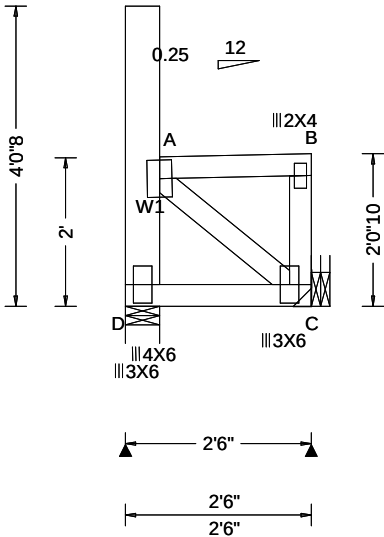
05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37350	MONO	Ply: 1	Job Number: JB-220698	Cust: R 9316 JRef:1XIQ93160001 T218
FROM:		Qty: 27	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1734.14477
			Truss Label: J02	/ FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	D 147 /- /- /114 /80 /91
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	C 173 /- /- /158 /64 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.70 ft	Building Code:	Creep Factor: 2.0	D Brg Wid = 5.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.103	C Brg Wid = - Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.079	Bearing D is a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.131	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Web Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Webs Tens.Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	A - C 240 - 390

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	2.03	30.67	2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets $L/360$.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

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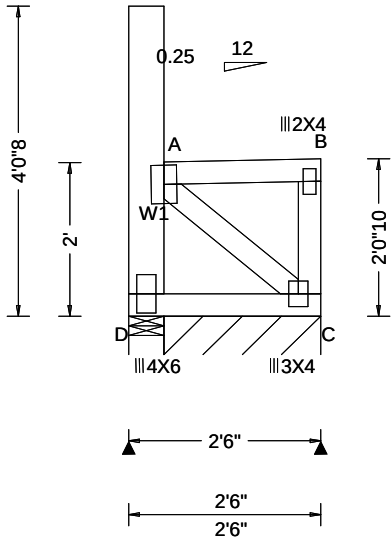
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37351 FROM:	MONO Qty: 6	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J03	Cust: R 9316 JRef:1XIQ93160001 T135 DrwNo: 142.22.1734.16460 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.000 B 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.000 B 999 240		D	147	/-	/-	/123	/86	/99
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.001 B - -		C*	85	/-	/-	/78	/34	/-
Des Ld: 65.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE		HORZ(TL): 0.001 B - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 21.70 ft				Creep Factor: 2.0		D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf		MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60		Max TC CSI: 0.103		C Brg Wid = 24.5 Min Req = -						
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.079		Bearings D & D are a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h				Max Web CSI: 0.106		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft						VIEW Ver: 21.02.00.1005.17						
		Loc. from endwall: not in 14.50 ft												
		GCpi: 0.18												
		Wind Duration: 1.60												

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes
All plates are 3X6 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



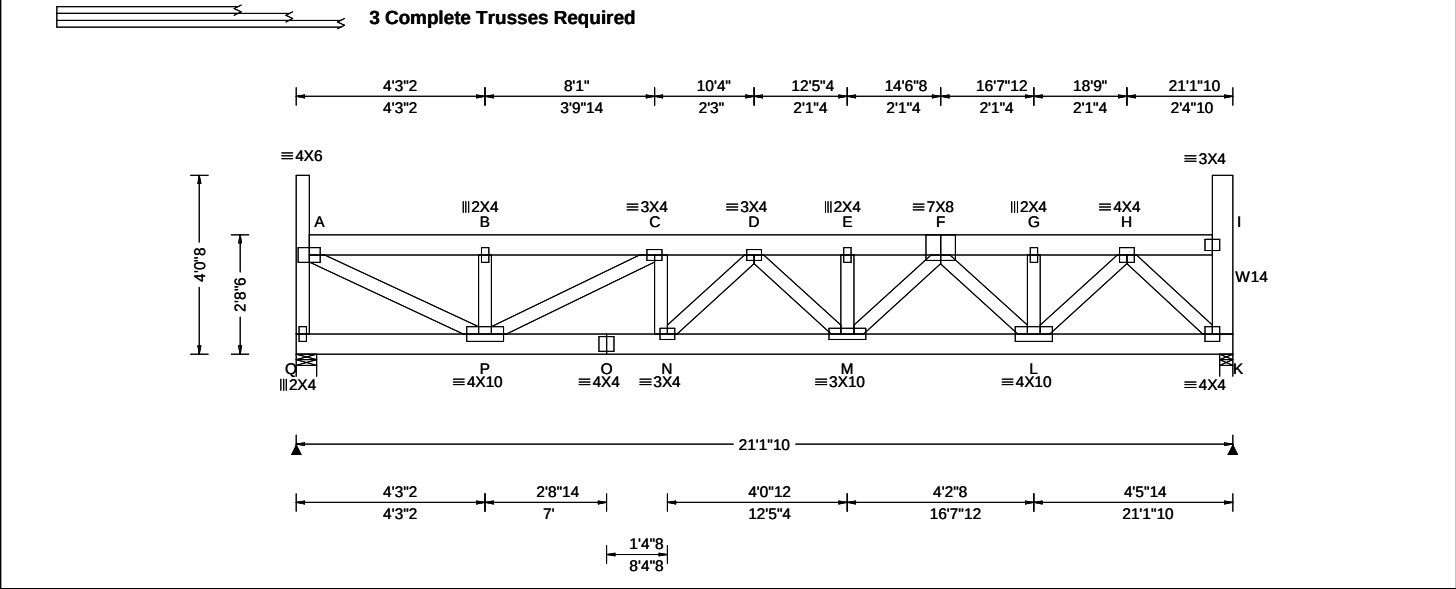
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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 13

SEQN: 37425 FROM:	FLAT Qty: 2	Ply: 3 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T01	Cust: R 9316 JRef:1XIQ93160001 T2 DrwNo: 142.22.1734.18583 / FK 05/22/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.060 D 999 360 VERT(CL): 0.111 D 999 240 HORZ(LL): 0.014 K - - HORZ(TL): 0.026 K - - Creep Factor: 2.0 Max TC CSI: 0.054 Max BC CSI: 0.283 Max Web CSI: 0.291 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs) <table><tr><th colspan="3">Gravity</th><th colspan="3">Non-Gravity</th></tr><tr><th>Loc</th><th>R+</th><th>/ R-</th><th>/ Rh</th><th>/ Rw</th><th>/ U / RL</th></tr><tr><td>Q</td><td>1981</td><td>-/-</td><td>-/-</td><td>-/-</td><td>/125 -/-</td></tr><tr><td>K</td><td>2325</td><td>-/-</td><td>-/-</td><td>-/-</td><td>/158 -/-</td></tr></table> Wind reactions based on MWFRS Q Brg Wid = 5.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings Q & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs)<table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>A - B</td><td>72 - 1106</td><td>E - F</td><td>163 - 2215</td></tr><tr><td>B - C</td><td>72 - 1102</td><td>F - G</td><td>98 - 1390</td></tr><tr><td>C - D</td><td>123 - 1792</td><td>G - H</td><td>98 - 1390</td></tr><tr><td>D - E</td><td>163 - 2215</td><td></td><td></td></tr></table>	Gravity			Non-Gravity			Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL	Q	1981	-/-	-/-	-/-	/125 -/-	K	2325	-/-	-/-	-/-	/158 -/-	Chords	Tens.Comp.	Chords	Tens. Comp.	A - B	72 - 1106	E - F	163 - 2215	B - C	72 - 1102	F - G	98 - 1390	C - D	123 - 1792	G - H	98 - 1390	D - E	163 - 2215		
	Gravity			Non-Gravity																																												
	Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL																																										
	Q	1981	-/-	-/-	-/-	/125 -/-																																										
	K	2325	-/-	-/-	-/-	/158 -/-																																										
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	C - D	123 - 1792	G - H	98 - 1390																																												
	D - E	163 - 2215																																														

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 60 plf at 0.00 to 60 plf at 21.14
BC: 1611 lb Conc. Load at 12.90

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
P - O	1751 - 119	M - L	1836 - 133
O - N	1751 - 119	L - K	768 - 54
N - M	2024 - 144		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q - A	40 - 620	F - L	50 - 652
A - P	1188 - 77	L - H	908 - 65
P - C	55 - 752	H - K	74 - 1041
M - F	554 - 44		

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 20.39 1.34 13.80 3.32
20.68 0.00 20.39 1.34 13.80 3.32
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.



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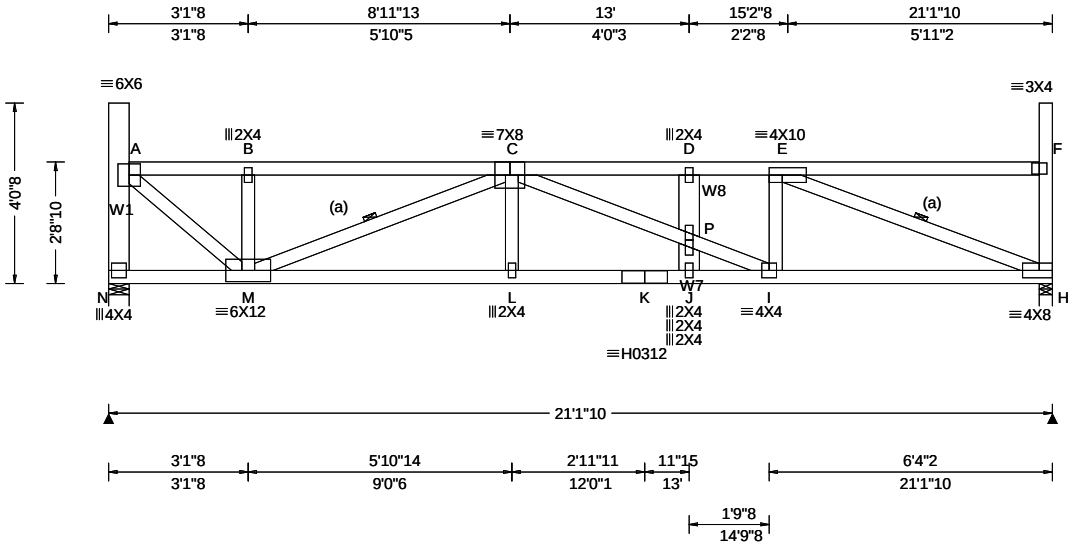
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37352 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T02	Cust: R 9316 JRef:1XIQ93160001 T165 DrwNo: 142.22.1734.23347 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.138 D 999 360 VERT(CL): 0.256 D 990 240 HORZ(LL): 0.036 H - - HORZ(TL): 0.066 H - - Creep Factor: 2.0 Max TC CSI: 0.439 Max BC CSI: 0.523 Max Web CSI: 0.606 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1340 /- /- /640 /77 /121 H 1352 /- /- /645 /79 /- Non-Gravity Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 1.7 (Truss) H Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 137 -1624 C - D 147 -2651 B - C 136 -1621 D - E 147 -2651

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

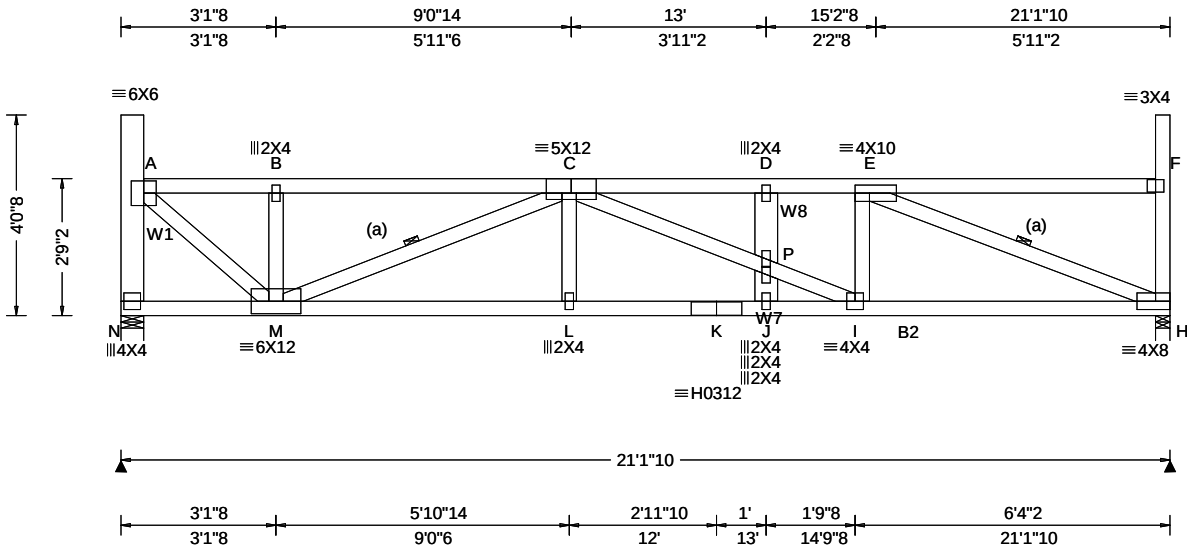
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Building 13

SEQN: 37353	FLAT	Ply: 1	Job Number: JB-220698	Cust: R 9316 JRef:1XIQ93160001 T168
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1734.27603
			Truss Label: T03	/ FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.142 D 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCDL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(Cl): 0.265 D 957 240	N 1342 /- /- /640 /78 /120
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.040 H - -	H 1353 /- /- /644 /80 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.075 H - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.43 ft	Building Code:	Creep Factor: 2.0	N Brg Wid = 5.5 Min Req = 2.1 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.440	H Brg Wid = 3.5 Min Req = 1.7 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.996	Bearings N & H are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.600	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			A - B 135 -1601 C - D 146 -2612
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	R C 135 -1608 D E 146 -2612

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.28	11.74	2.83
20.84	0.00	20.39	1.28	11.74	2.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

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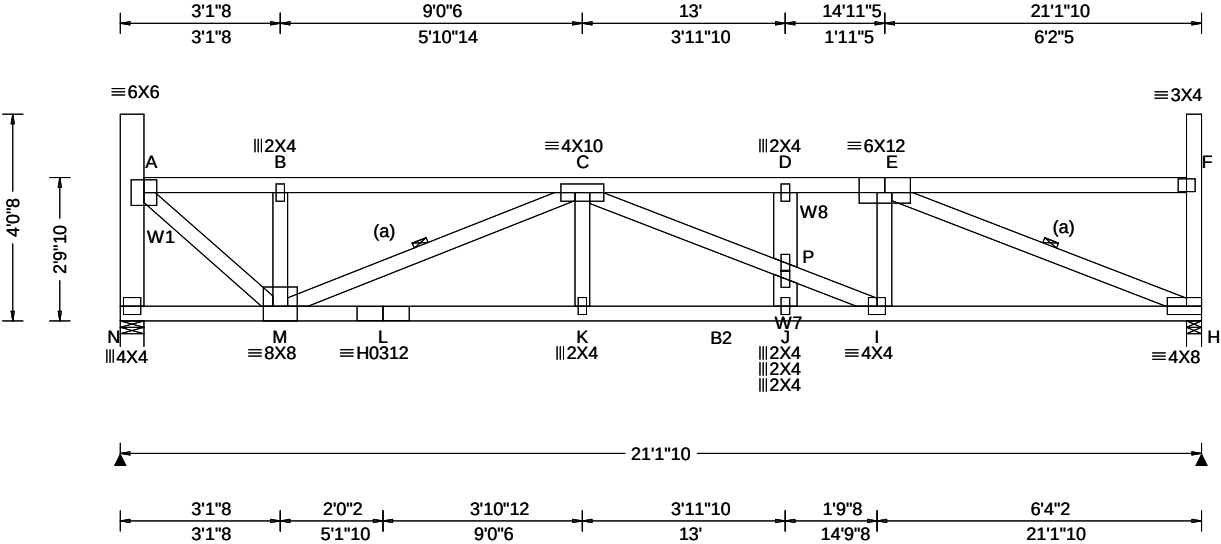


ALPINE
ANTRIM COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37354 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T04	Cust: R 9316 JRef:1XIQ93160001 T134 DrwNo: 142.22.1734.30133 / FK 05/22/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.132 D 999 360 VERT(CL): 0.236 D 999 240 HORZ(LL): 0.036 H - - HORZ(TL): 0.067 H - - Creep Factor: 2.0 Max TC CSI: 0.440 Max BC CSI: 0.919 Max Web CSI: 0.592 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs) Gravity Non-Gravity <table><tr><th>Loc</th><th>R+</th><th>/ R-</th><th>/ Rh</th><th>/ Rw</th><th>/ U</th><th>/ RL</th></tr><tr><td>N</td><td>1342</td><td>/-</td><td>/-</td><td>/639</td><td>/78</td><td>/119</td></tr><tr><td>H</td><td>1353</td><td>/-</td><td>/-</td><td>/644</td><td>/80</td><td>/-</td></tr></table> Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 2.1 (Truss) H Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table><tr><th colspan="2">Chords Tens.Comp.</th><th colspan="2">Chords Tens. Comp.</th></tr><tr><td>A - B</td><td>133 - 1571</td><td>C - D</td><td>168 - 2565</td></tr><tr><td>B - C</td><td>132 - 1567</td><td>D - E</td><td>169 - 2566</td></tr></table>						Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	N	1342	/-	/-	/639	/78	/119	H	1353	/-	/-	/644	/80	/-	Chords Tens.Comp.		Chords Tens. Comp.		A - B	133 - 1571	C - D	168 - 2565	B - C	132 - 1567	D - E	169 - 2566
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL																																			
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	A - B	133 - 1571	C - D	168 - 2565																																						
	B - C	132 - 1567	D - E	169 - 2566																																						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.24 10.35 2.50
20.84 0.00 20.39 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



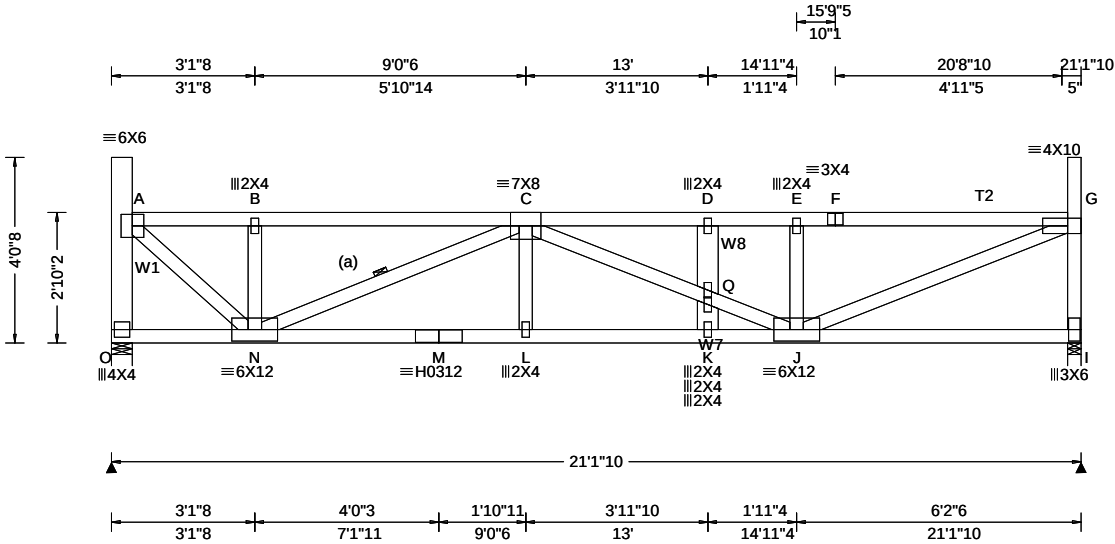
05/22/2022

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Building 13

SEQN: 37422 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T05	Cust: R 9316 JRef:1XIQ93160001 T167 DrwNo: 142.22.1734.33283 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.153 D 999 360 VERT(CL): 0.283 D 895 240 HORZ(LL): 0.034 A - - HORZ(TL): 0.063 A - - Creep Factor: 2.0 Max TC CSI: 0.626 Max BC CSI: 0.730 Max Web CSI: 0.771 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL O 1435 -/- /- /- /121 -/ I 1602 -/- /- /- /245 -/ Wind reactions based on MWFRS O Brg Wid = 5.5 Min Req = 1.8 (Truss) I Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings O & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 144 -1659 D - E 444 -3020 B - C 144 -1656 E - F 444 -3017 C - D 444 -3020 F - G 444 -3025

Lumber Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1,W7, W8 2x6 SPF 1650f-1.5E;	Additional Notes Truss must be installed as shown with top chord up.
Bracing (a) Continuous lateral restraint equally spaced on member.	
Special Loads ----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 70 plf at 0.46 to 70 plf at 20.84 BC: From 60 plf at 0.00 to 60 plf at 13.29 BC: From 30 plf at 13.29 to 30 plf at 21.14 BC: 144 lb Conc. Load at 13.29,15.07,17.07,19.07	
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 20.39 1.20 8.97 2.16 20.84 0.00 20.39 1.20 8.97 2.16 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	
Purlins The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.	
Wind Wind loads and reactions based on MWFRS. End verticals exposed to wind pressure. Deflection meets L/360.	

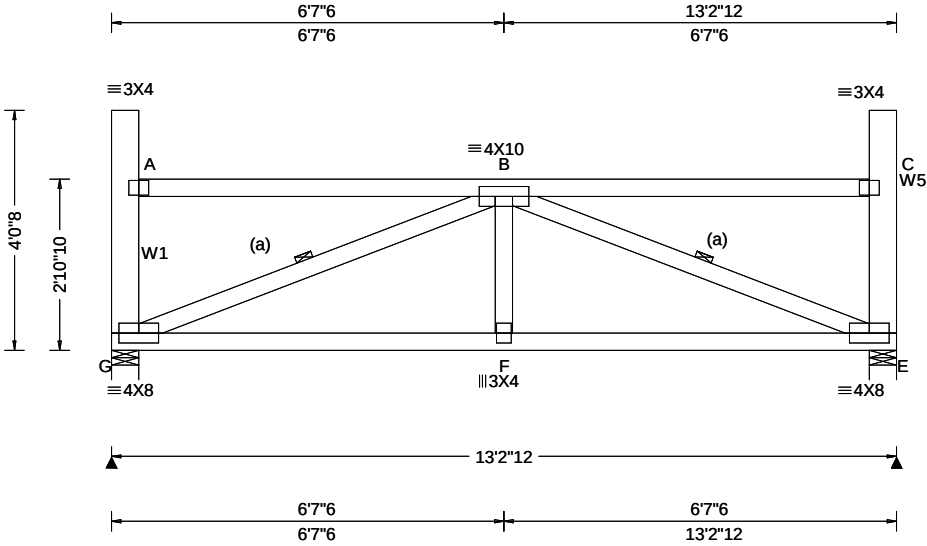


05/22/2022

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Building 13

SEQN: 37355 FROM:	SPEC Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T06	Cust: R 9316 JRef:1XIQ93160001 T149 DrwNo: 142.22.1734.58913 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity		
TCDL:	15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.043 F 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
BCLL:	15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.080 F 999 240	G	828	/-	/-	/408	/59 /116
BCDL:	15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.015 E - -	E	828	/-	/-	/408	/59 /-
Des Ld:	65.00	EXP: B Kzt: NA		HORZ(TL): 0.028 E - -	Wind reactions based on MWFRS					
NCBCLL:	0.00	Mean Height: 22.55 ft	Building Code:	Creep Factor: 2.0	G	Brg Wid = 5.5	Min Req = 1.5	(Truss)		
Soffit:	2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.546	E	Brg Wid = 5.5	Min Req = 1.5	(Truss)		
Load Duration:	1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.744	Bearings G & E are a rigid surface.					
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.315	Members not listed have forces less than 375#					
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Bot Chord Forces Per Ply (lbs)					
		Loc. from endwall: Any	Plate Type(s):		Chords	Tens.Comp.	Chords	Tens. Comp.		
		GCpi: 0.18			G - F	1311 -166	F - E	1311 -166		
		Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.59 1.83
12.77 0.00 20.00 1.16 7.59 1.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



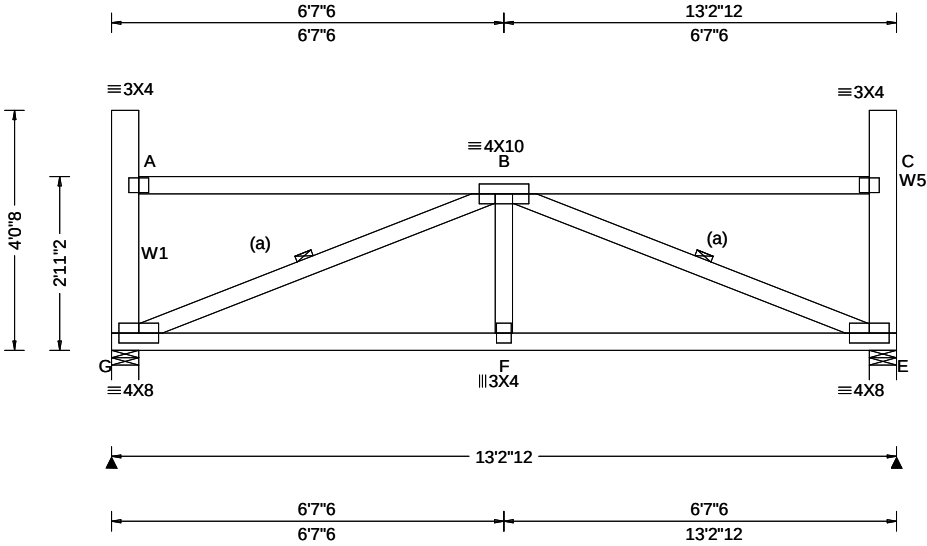
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37356 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T07	Cust: R 9316 JRef:1XIQ93160001 T146 DrwNo: 142.22.1735.38470 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.042 F 999 360 VERT(CL): 0.078 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.028 E - - Creep Factor: 2.0 Max TC CSI: 0.547 Max BC CSI: 0.741 Max Web CSI: 0.312 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 828 /- /- /407 /59 /115 E 828 /- /- /407 /59 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1291 -164 F - E 1291 -164

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.11 6.20 1.50
12.77 0.00 20.00 1.11 6.20 1.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



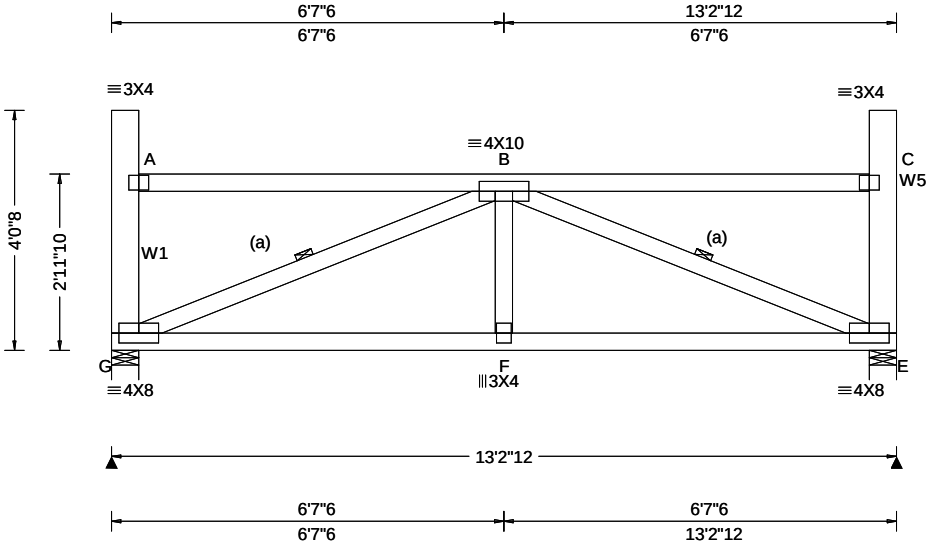
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Building 13

SEQN: 37357 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08	Cust: R 9316 JRef:1XIQ93160001 T150 DrwNo: 142.22.1735.40457 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.041 F 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.076 F 999 240		G	828	/-	/-	/407	/59	/114	
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.015 E - -		E	828	/-	/-	/407	/59	/-	
Des Ld: 65.00		EXP: B Kzt: NA				HORZ(TL): 0.027 E - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height: 22.64 ft		Building Code:		Creep Factor: 2.0		G Brg Wid = 5.5 Min Req = 1.5 (Truss)							
Soffit: 2.00		TCDL: 5.0 psf		IBC 2018		Max TC CSI: 0.548		E Brg Wid = 5.5 Min Req = 1.5 (Truss)							
Load Duration: 1.15		BCDL: 3.0 psf		TPI Std: 2014		Max BC CSI: 0.738		Bearings G & E are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		Rep Fac: Yes		Max Web CSI: 0.309		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)				Maximum Bot Chord Forces Per Ply (lbs)							
		Loc. from endwall: Any		Plate Type(s):				Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18		WAVE		VIEW Ver: 21.02.00.1005.17		G - F		1271 -162		F - E		1271 -162	
		Wind Duration: 1.60													

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



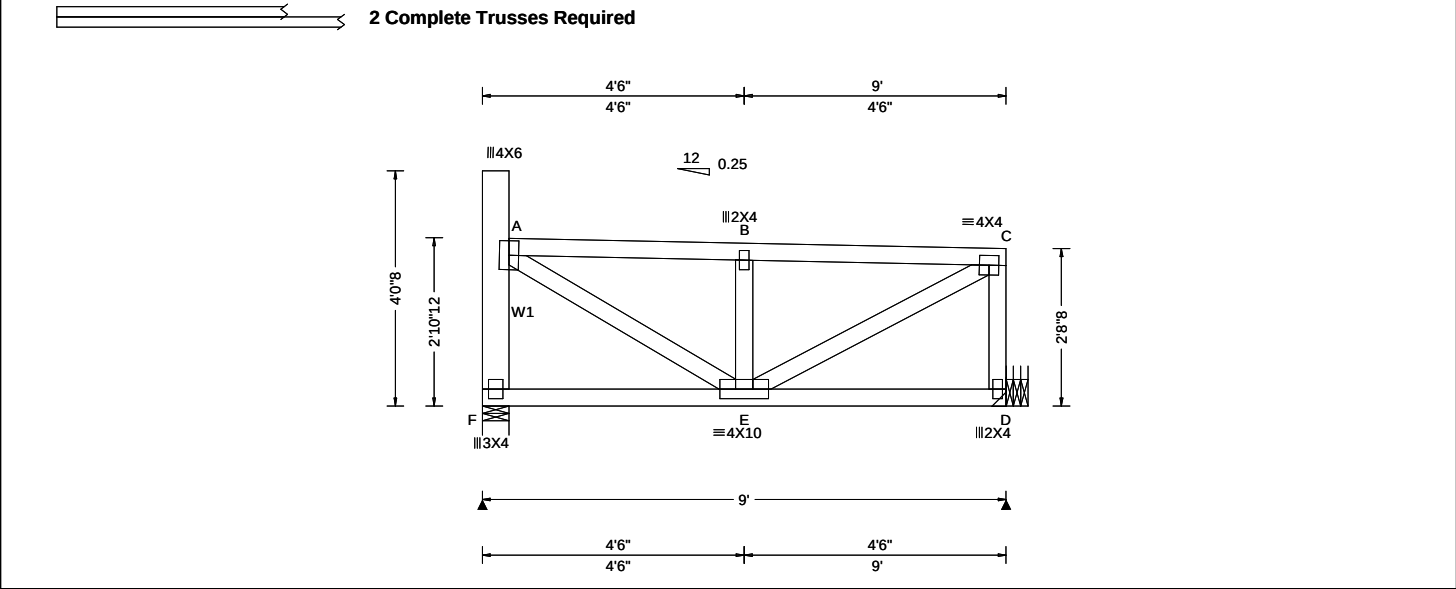
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Building 13

SEQN: 37424	MONO	Ply: 2	Job Number: JB-220698	Cust: R 9316 JRef:1XIQ93160001 T1
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1735.45817
			Truss Label: T10	/ FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	F	1371	/-	/-	/-	/183	/-
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.015 B 999 360	D	1611	/-	/-	/-	/155	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.029 B 999 240	Wind reactions based on MWFRS						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.004 A - -	F	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.007 A - -	D	Brg Wid = - Min Req = -					
NCBCLL: 0.00	Mean Height: 22.46 ft	Building Code:	Creep Factor: 2.0	Bearing F is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.128	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.459	Maximum Top Chord Forces Per Ply (lbs)						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.235	Chords	Tens.Comp.	Chords	Tens. Comp.			
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	VIEW Ver: 21.02.00.1005.17	A - B	100	-859	B - C	100	-860	
	Loc. from endwall: not in 29.00 ft	Plate Type(s):								
	GCpi: 0.18	WAVE								
	Wind Duration: 1.60									

Lumber	Additional Notes	Maximum Web Forces Per Ply (lbs)
Top chord: 2x4 SPF #1/#2;	Truss must be installed as shown with top chord up.	Webs Tens.Comp. Webs Tens. Comp.
Bot chord: 2x4 SPF 2100f-1.8E;		F - A 54 -490 E - C 959 -112
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;		A - E 909 -102 C - D 58 -507

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 60 plf at 0.00 to 60 plf at 2.33
BC: From 30 plf at 2.33 to 30 plf at 9.00
BC: 762 lb Conc. Load at 2.33
BC: 527 lb Conc. Load at 4.33, 6.33, 8.33

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.84
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.



05/22/2022

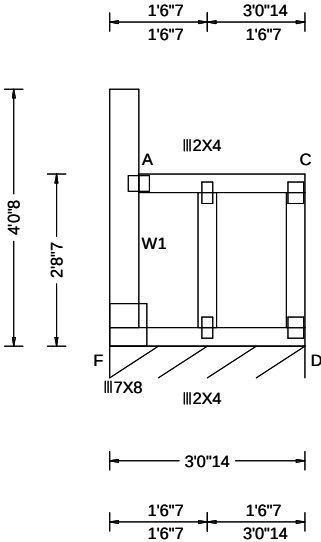
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37358 FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T11	Cust: R 9316 JRef:1XIQ93160001 T187 DrwNo: 142.22.1735.49240 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 360 VERT(CL): 0.009 A 999 240 HORZ(LL): 0.117 A - - HORZ(TL): 0.136 A - - Creep Factor: 2.0 Max TC CSI: 0.116 Max BC CSI: 0.326 Max Web CSI: 0.142 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				D*	120	/-	/-	/56	/5	/30
				Wind reactions based on MWFRS						
				D Brg Wid = 36.9 Min Req = -						
				Bearing F is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.34 13.63 2.61
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, &
GABRST160118 for gable wind bracing and other
requirements.
Truss must be installed as shown with top chord up.

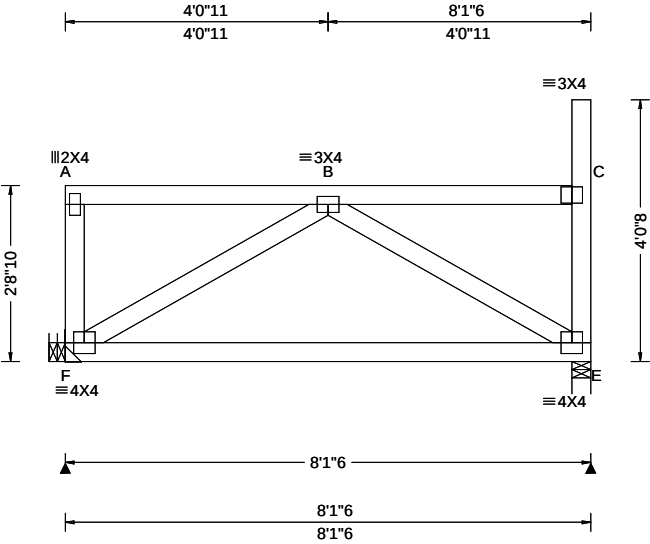


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Building 13

SEQN: 37359 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T12	Cust: R 9316 JRef:1XIQ93160001 T110 DrwNo: 142.22.1735.52497 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	F	527	/-	/-	/270	/46	/93
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	E	507	/-	/-	/255	/47	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	Wind reactions based on MWFRS						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	F Brg Wid = - Min Req = -						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
NCBCLL: 0.00	Mean Height: 22.39 ft	Building Code:	Creep Factor: 2.0	Bearing E is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.217	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.611							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.204							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.32 13.12 3.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



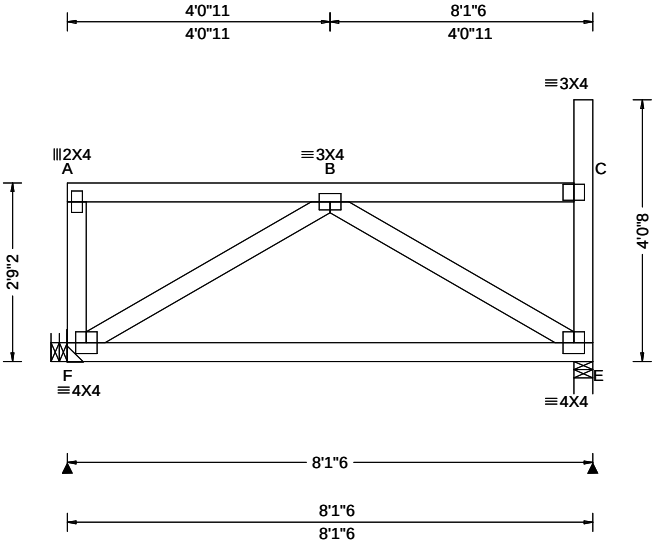
05/22/2022

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Building 13

SEQN: 37360 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T13	Cust: R 9316 JRef:1XIQ93160001 T229 DrwNo: 142.22.1735.54660 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	F	527	/-	/-	/270	/46	/92
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	E	507	/-	/-	/255	/47	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	F	Brg Wid = -			Min Req = -		
NCBCLL: 0.00	Mean Height: 22.43 ft	Building Code:	Creep Factor: 2.0	E	Brg Wid = 3.5			Min Req = 1.5 (Truss)		
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.217	Bearing E is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.611	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.204							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.28 11.74 2.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



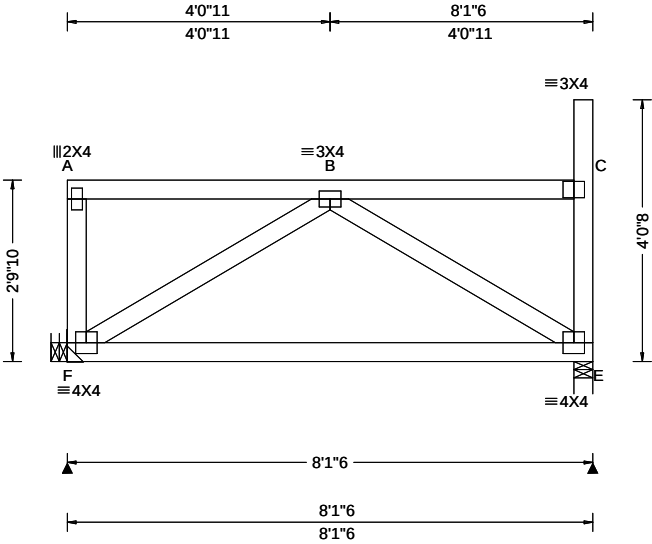
05/22/2022

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Building 13

SEQN: 37361 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T14	Cust: R 9316 JRef:1XIQ93160001 T206 DrwNo: 142.22.1735.56590 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	F	527	/-	/-	/270	/46	/92
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.007 B 999 240	E	507	/-	/-	/255	/47	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	F	Brg Wid = -			Min Req = -		
NCBCLL: 0.00	Mean Height: 22.47 ft	Building Code:	Creep Factor: 2.0	E	Brg Wid = 3.5			Min Req = 1.5 (Truss)		
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.218	Bearing E is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.610	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.203							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

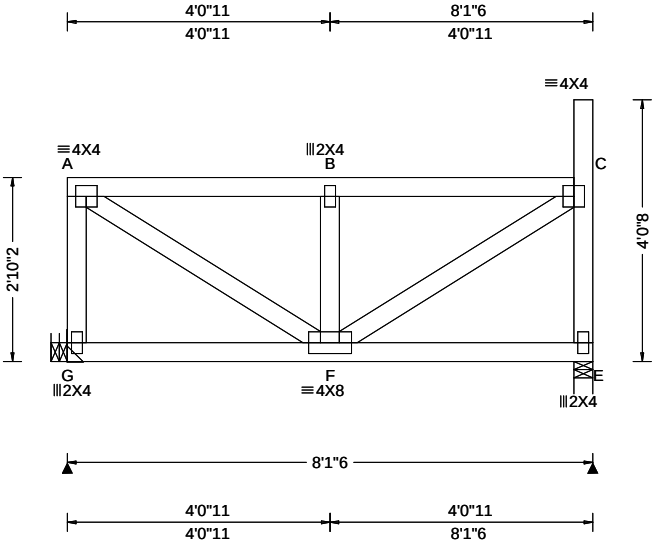
Additional Notes
Truss must be installed as shown with top chord up.



05/22/2022 **WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org		ALPINE AN ITW COMPANY 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 13

SEQN: 37423 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T15	Cust: R 9316 JRef:1XIQ93160001 T212 DrwNo: 142.22.1735.58717 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	G	762	/-	/-	/-	/172	/-
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.012 B 999 360	E	607	/-	/-	/-	/114	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.021 B 999 240	Wind reactions based on MWFRS						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): -0.002 C - -	G Brg Wid = - Min Req = -						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.004 C - -	E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
NCBCLL: 0.00	Mean Height: 22.51 ft	Building Code:	Creep Factor: 2.0	Bearing E is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.239	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.340	Maximum Top Chord Forces Per Ply (lbs)						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.190	Chords	Tens.Comp.		Chords	Tens. Comp.		
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		A - B	138	-667	B - C	138	-671	
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 30 plf at 0.00 to 30 plf at 8.11
BC: 144 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.20 8.97 2.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



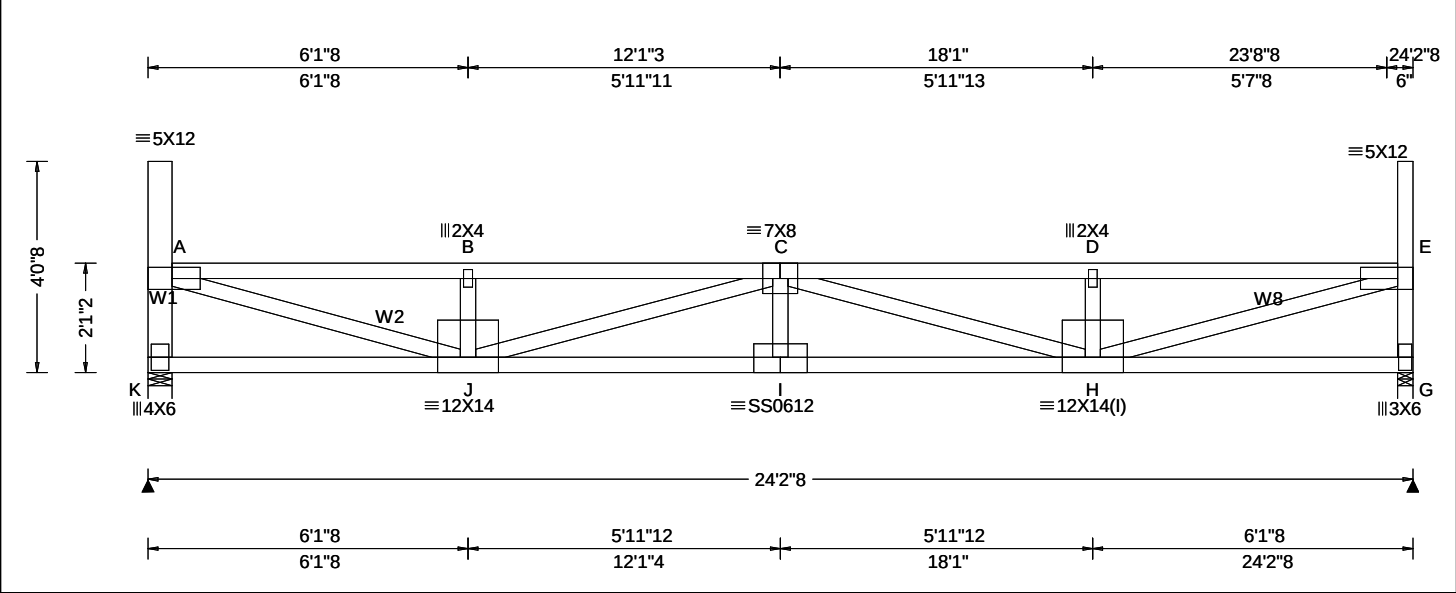
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Building 13

SEQN: 37362 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T17	Cust: R 9316 JRef:1XIQ93160001 T175 DrwNo: 142.22.1736.01310 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.76 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.389 I 746 360 VERT(CL): 0.723 I 401 240 HORZ(LL): 0.061 A - - HORZ(TL): 0.113 A - - Creep Factor: 2.0 Max TC CSI: 0.955 Max BC CSI: 0.730 Max Web CSI: 0.868 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /733 /84 /139 G 1553 /- /- /738 /86 /- Non-Gravity Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 258 -4188 C - D 257 -4194 B - C 257 -4183 D - E 258 -4199

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; W2, W8 2x4 SPF 2100f-1.8E;

Plating Notes
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.95 33.87 4.20
23.92 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.39" DL: 0.33". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



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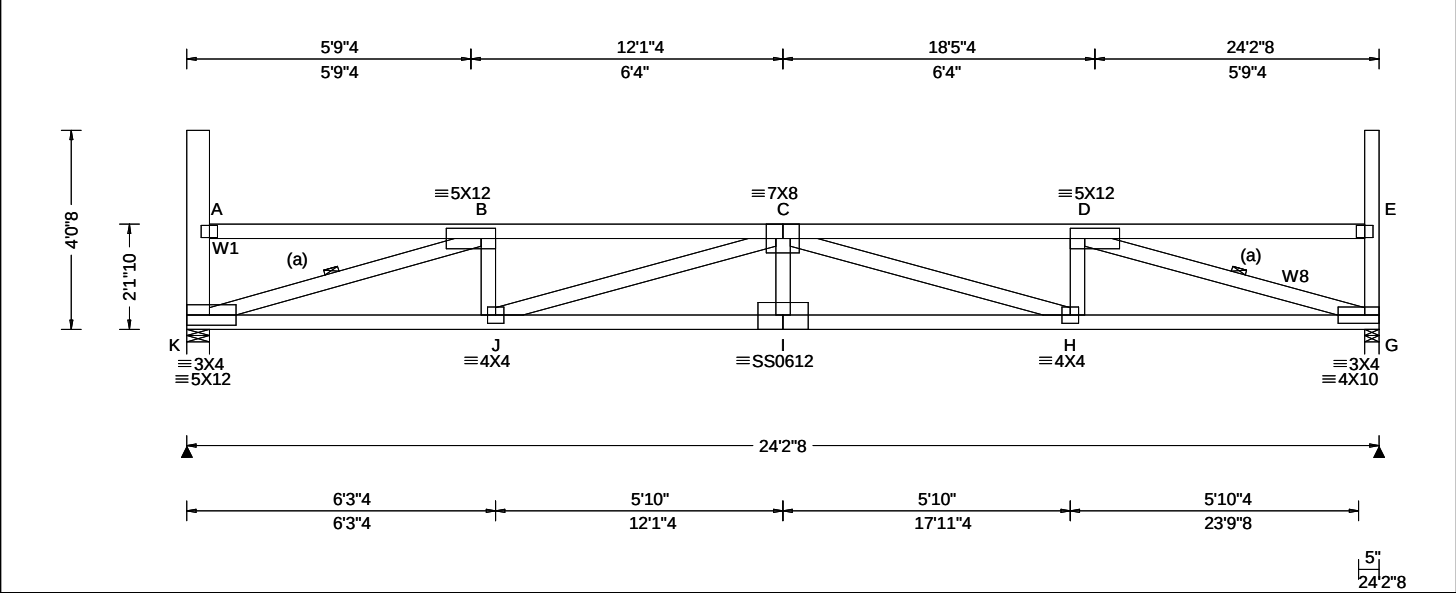
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37459 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T18	Cust: R 9316 JRef:1XIQ93160001 T180 DrwNo: 142.22.1736.03657 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.383 I 758 360 VERT(CL): 0.694 I 418 240 HORZ(LL): 0.081 G - - HORZ(TL): 0.147 G - - Creep Factor: 2.0 Max TC CSI: 0.775 Max BC CSI: 0.722 Max Web CSI: 0.864 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1588 -/- /733 /85 /138 G 1600 -/- /737 /87 -/ Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 249 -4243 C - D 249 -4263

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; W8 2x4 SPF 2100f-1.8E;	Chords Tens.Comp. Chords Tens. Comp. K - J 4122 -361 I - H 5460 -321 J - I 5460 -321 H - G 4140 -216

Bracing	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member.	Webs Tens.Comp. Webs Tens. Comp. K - B 252 -4207 C - H 139 -1256 B - J 771 -2 H - D 786 -1 J - C 141 -1277 D - G 250 -4277

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.91 32.49 4.38
23.92 0.00 23.46 1.91 32.49 4.38
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.38" DL: 0.31". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

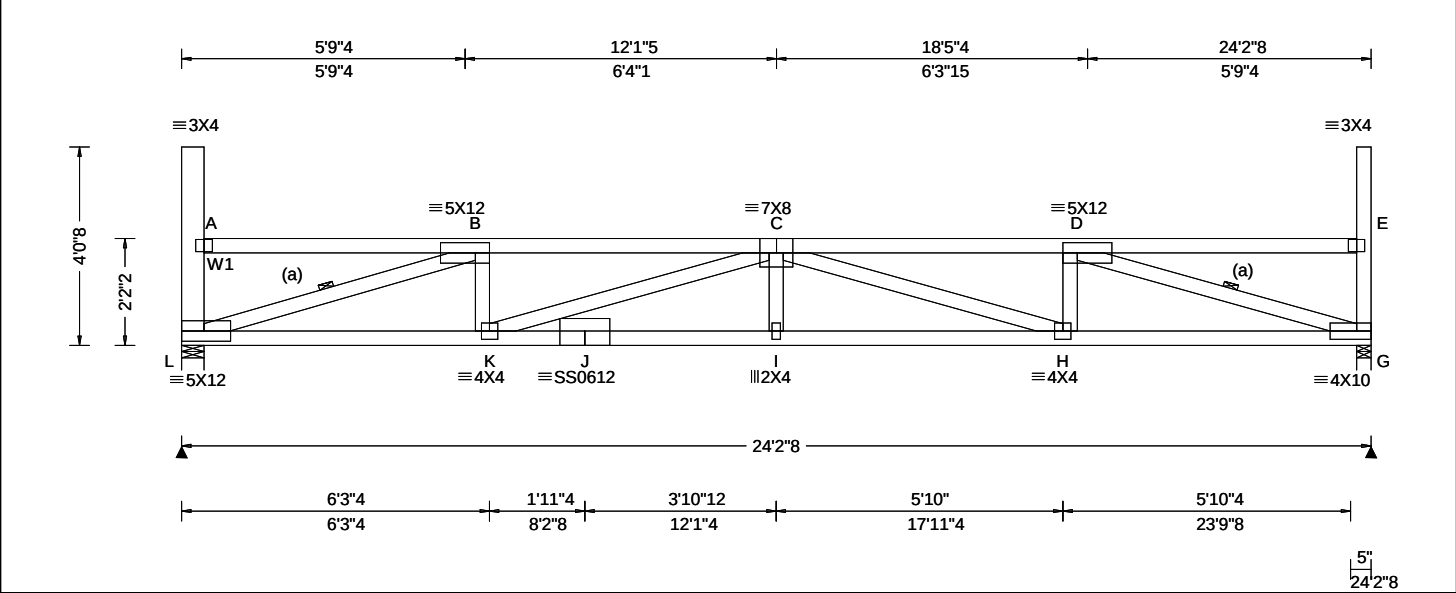


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Building 13

SEQN: 37364 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T19	Cust: R 9316 JRef:1XIQ93160001 T171 DrwNo: 142.22.1736.06263 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity			Non-Gravity			
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	L	1542	/-	/-	/732	/85	/136
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	G	1553	/-	/-	/737	/87	/-
	Des Ld: 65.00	EXP: B Kzt: NA		Wind reactions based on MWFRS						
	NCBCLL: 0.00	Mean Height: 21.84 ft	Building Code:	L	Brg Wid = 5.5		Min Req = 2.0 (Truss)			
	Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	G	Brg Wid = 3.5		Min Req = 2.0 (Truss)			
	Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Bearings L & G are a rigid surface.						
	Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: Any	Plate Type(s):	Chords	Tens.Comp.		Chords	Tens. Comp.			
	GCpi: 0.18		B - C	244 - 4029		C - D	244 - 4040			
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.86	31.10 4.58
	23.92	0.00	23.46	1.86	31.10 4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

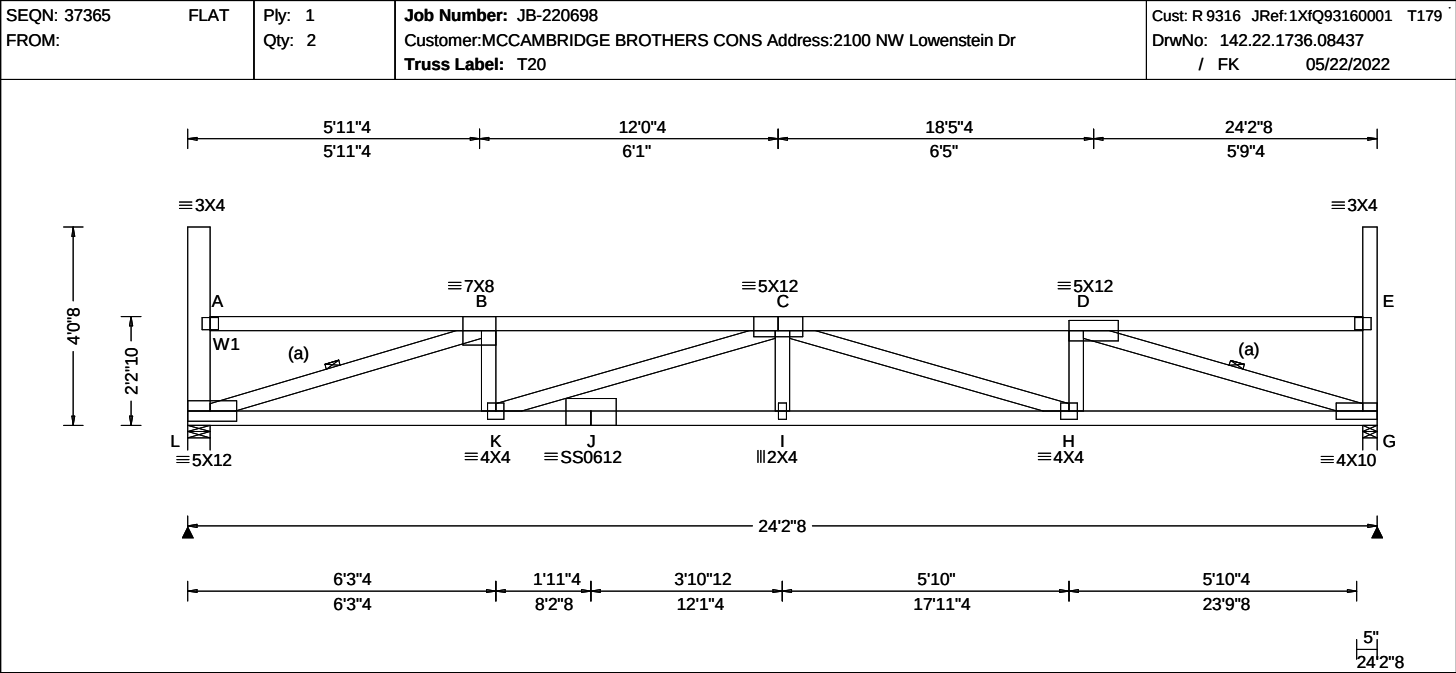


05/22/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity			Non-Gravity				
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(LL): 0.341 I 851 360	L	1542	/-	/-	/732	/85	/135
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	VERT(CL): 0.634 I 457 240	G	1553	/-	/-	/737	/87	/-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(LL): 0.073 G - -	Wind reactions based on MWFRS							
NCBCLL: 0.00	Mean Height: 21.89 ft	Building Code:	HORZ(TL): 0.137 G - -	L Brg Wid = 5.5 Min Req = 2.0 (Truss)							
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Creep Factor: 2.0	G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max TC CSI: 0.680	Bearings L & G are a rigid surface.							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max BC CSI: 0.681	Members not listed have forces less than 375#							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Max Web CSI: 0.839	Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: Any	Plate Type(s):		Chords		Tens.Comp.		Chords		Tens. Comp.	
	GCpi: 0.18			B - C		240 -3945		C - D		240 -3955	
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17								

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.82 29.72 4.79
23.92 0.00 23.46 1.82 29.72 4.79
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



05/22/2022

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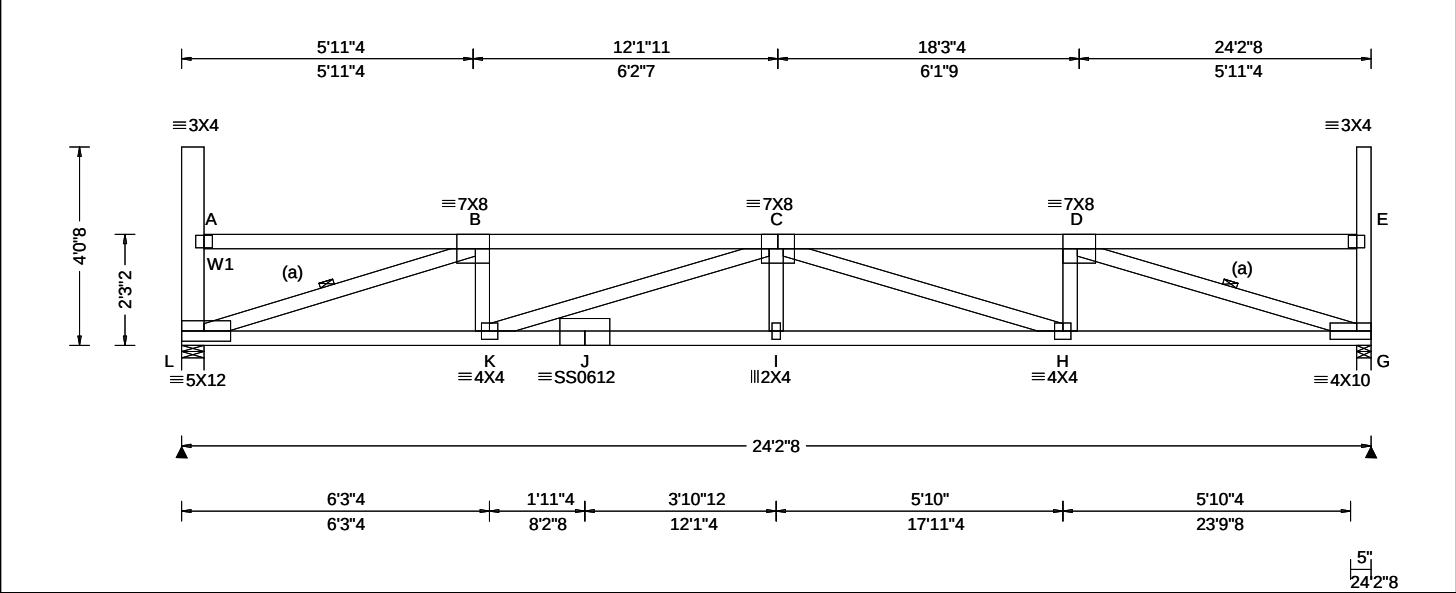
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37366 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T21	Cust: R 9316 JRef:1XIQ93160001 T183 DrwNo: 142.22.1736.11053 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.327 I 887 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.608 I 477 240	L	1540	/-	/-	/732	/85	/134
	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.072 G - -	G	1552	/-	/-	/737	/87	/-
	EXP: B Kzt: NA		HORZ(TL): 0.134 G - -	Wind reactions based on MWFRS						
	Mean Height: 21.93 ft		Creep Factor: 2.0	L	Brg Wid = 5.5		Min Req = 2.0 (Truss)			
	TCDL: 5.0 psf		Max TC CSI: 0.656	G	Brg Wid = 3.5		Min Req = 2.0 (Truss)			
	BCDL: 3.0 psf		Max BC CSI: 0.671	Bearings L & G are a rigid surface.						
	MWFRS Parallel Dist: h/2 to h		Max Web CSI: 0.824	Members not listed have forces less than 375#						
C&C Dist a: 3.00 ft			Maximum Top Chord Forces Per Ply (lbs)							
Loc. from endwall: Any			Chords	Tens.Comp.		Chords	Tens. Comp.			
GCpi: 0.18			B - C	211 - 3859		C - D	211 - 3870			
Wind Duration: 1.60										

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.78	28.34	5.03
23.92	0.00	23.46	1.78	28.34	5.03

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



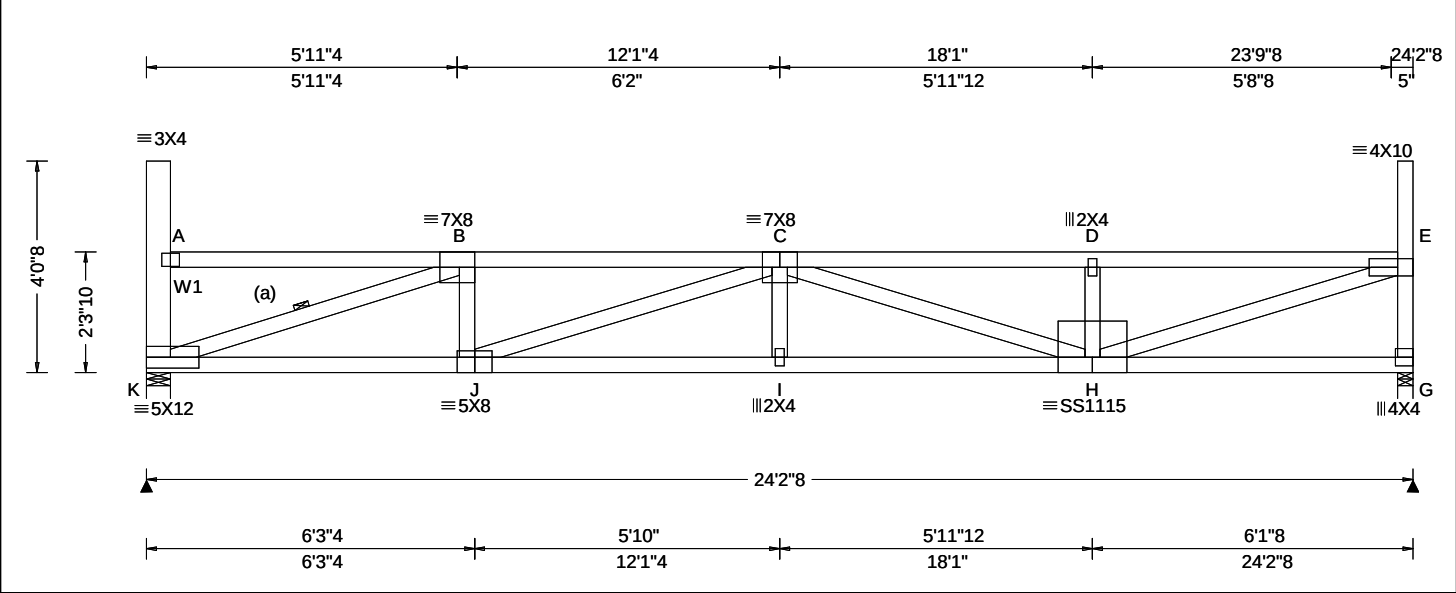
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Building 13

SEQN: 37439 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T22	Cust: R 9316 JRef:1XIQ93160001 T174 DrwNo: 142.22.1736.13263 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)	
TCLL: 20.00	TCCL: 15.00	Wind Std: ASCE 7-16	Speed: 109 mph	Pg: 20.0 Ct: 1.1 CAT: II	Pf: 15.4 Ce: 1.0	PP Deflection in loc L/defl L/#	VERT(LL): 0.326 I 890 360	Gravity	
BCCL: 15.00	BCDL: 15.00	Enclosure: Closed	Risk Category: II	Lu: - Cs: 1.00	Snow Duration: 1.15	VERT(CL): 0.592 I 490 240	HORZ(LL): 0.057 A - -	Loc	R+ / R- / Rh
Des Ld: 65.00	NCBCLL: 0.00	EXP: B Kzt: NA	Mean Height: 21.97 ft	Building Code:		HORZ(TL): 0.104 A - -	Creep Factor: 2.0	Non-Gravity	
Soffit: 2.00	Load Duration: 1.15	BCDL: 3.0 psf	TCCL: 5.0 psf	IBC 2018		Max TC CSI: 0.876	Max BC CSI: 0.565	Wind reactions based on MWFRS	
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h	C&C Dist a: 3.00 ft	TPI Std: 2014		Max Web CSI: 0.967	VIEW Ver: 21.02.00.1005.17	Members not listed have forces less than 375#	
		GCpi: 0.18	Loc. from endwall: not in 14.50 ft	FT/RT:20(0)/10(0)				Maximum Top Chord Forces Per Ply (lbs)	
		Wind Duration: 1.60		Plate Type(s):				Chords Tens.Comp. Chords Tens. Comp.	
				WAVE, 18SS				B - C 208 -3891 D - E 212 -3875	
								C - D 211 -3869	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 DF-L 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.27". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



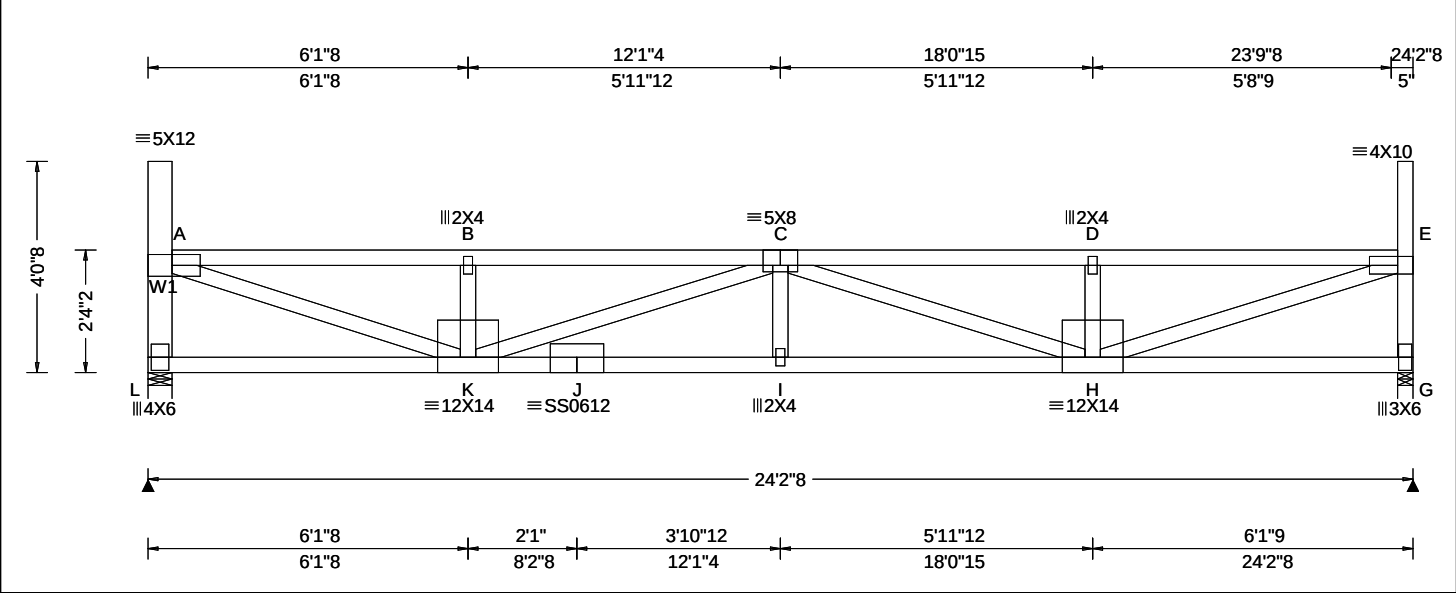
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Building 13

SEQN: 37368 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T23	Cust: R 9316 JRef:1XIQ93160001 T184 DrwNo: 142.22.1736.26467 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.318 I 914 360 VERT(CL): 0.591 I 491 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.100 A - - Creep Factor: 2.0 Max TC CSI: 0.862 Max BC CSI: 0.651 Max Web CSI: 0.924 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /85 /132 G 1553 /- /- /737 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 209 -3686 C - D 209 -3691 B - C 209 -3681 D - E 209 -3696

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.70 25.57 5.57
23.92 0.00 23.46 1.70 25.57 5.57
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.

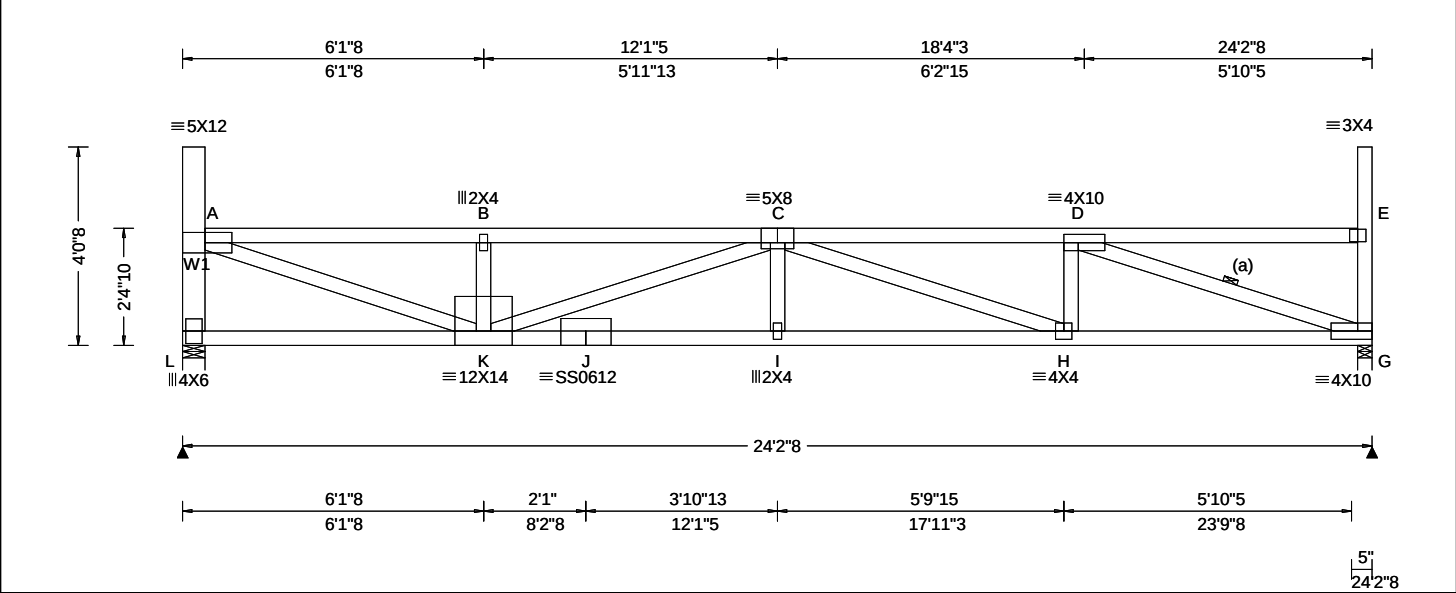


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Building 13

SEQN: 37369 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T24	Cust: R 9316 JRef:1XIQ93160001 T176 DrwNo: 142.22.1736.28763 / FK 05/22/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.298 I 973 360 VERT(CL): 0.555 I 523 240 HORZ(LL): 0.054 G - - HORZ(TL): 0.100 G - - Creep Factor: 2.0 Max TC CSI: 0.822 Max BC CSI: 0.647 Max Web CSI: 0.890 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL			
	L	1542	/-	/-	/732	/85	/131			
	G	1553	/-	/-	/737	/87	/-			
	Wind reactions based on MWFRS									
	L Brg Wid = 5.5 Min Req = 2.0 (Truss)									
	G Brg Wid = 3.5 Min Req = 2.0 (Truss)									
	Bearings L & G are a rigid surface.									
	Members not listed have forces less than 375#									
Maximum Top Chord Forces Per Ply (lbs)										
			Chords		Tens.Comp.		Chords		Tens. Comp.	
A - B	206 - 3615		C - D		202 - 3649					
B - C	205 - 3610									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.66	24.19 5.83
	23.92	0.00	23.46	1.66	24.19 5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



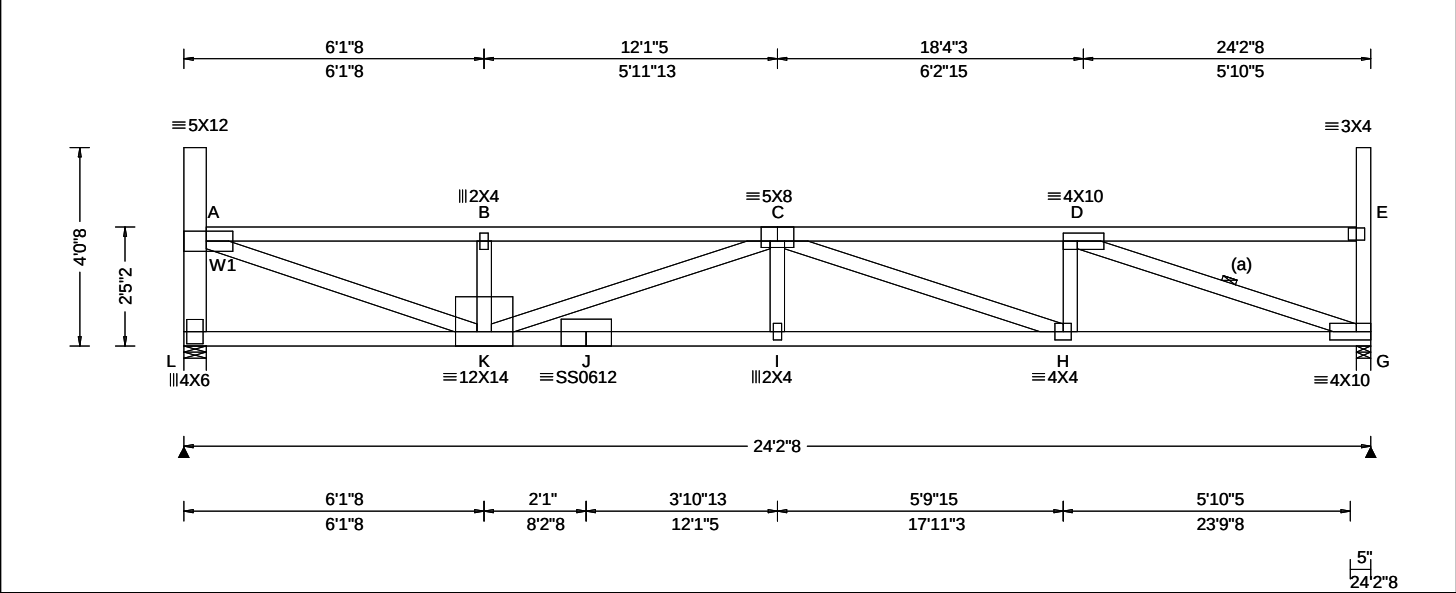
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Building 13

SEQN: 37370 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T25	Cust: R 9316 JRef:1XIQ93160001 T172 DrwNo: 142.22.1736.31153 / FK 05/22/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.287 I 999 360 VERT(CL): 0.534 I 543 240 HORZ(LL): 0.053 G - - HORZ(TL): 0.098 G - - Creep Factor: 2.0 Max TC CSI: 0.793 Max BC CSI: 0.641 Max Web CSI: 0.875 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				L	1542	/-	/-	/732	/85	/129
				G	1553	/-	/-	/737	/87	/-
				Wind reactions based on MWFRS						
				L Brg Wid = 5.5 Min Req = 2.0 (Truss)						
				G Brg Wid = 3.5 Min Req = 2.0 (Truss)						
				Bearings L & G are a rigid surface.						
				Members not listed have forces less than 375#						
			Maximum Top Chord Forces Per Ply (lbs)							
			Chords		Tens.Comp.		Chords		Tens. Comp.	
			A - B	202 - 3547		C - D		198 - 3579		
			B - C	201 - 3542						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.61	22.80 5.50
	23.92	0.00	23.46	1.61	22.80 5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



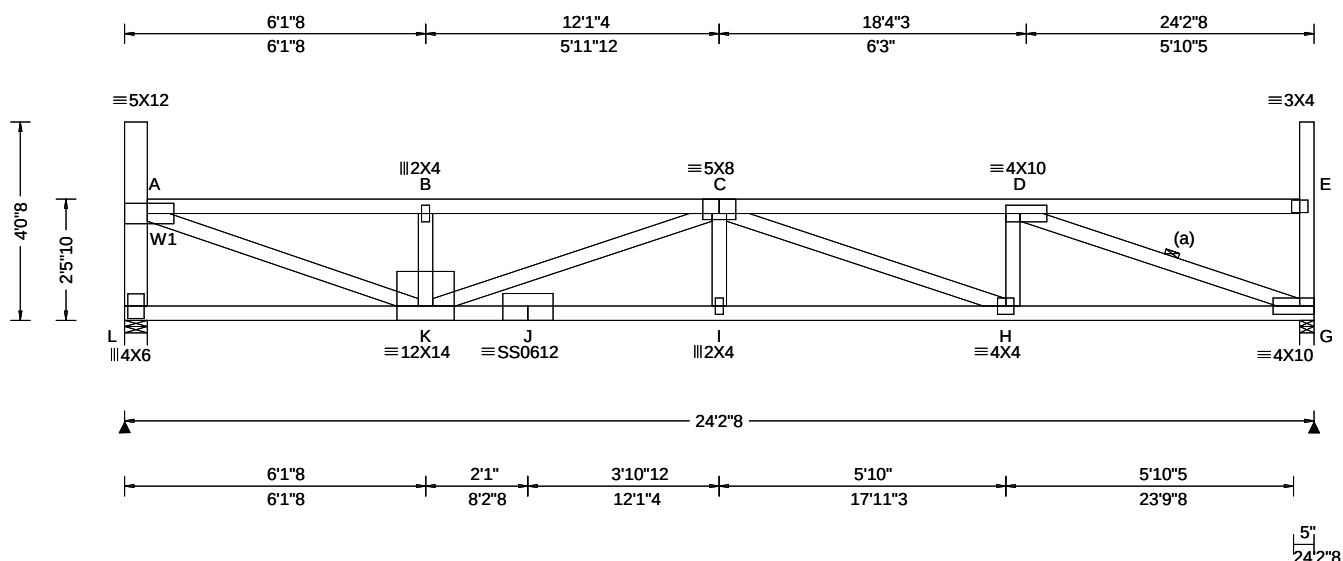
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Building 13

SEQN: 37371	FLAT	Ply: 1	Job Number: JB-220698	Cust: R 9316 JRef:1XfQ93160001 T173
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1736.33737
			Truss Label: T26	/ FK 05/22/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity		Non-Gravity					
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.277 I 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.515 I 563 240		L	1542	/-	/-	/732	/86	/128	
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.052 G - -		G	1553	/-	/-	/737	/88	/-	
Des Ld: 65.00		EXP: B Kzt: NA				HORZ(TL): 0.096 G - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height: 22.14 ft		Building Code:		Creep Factor: 2.0		L Brg Wid = 5.5 Min Req = 2.0 (Truss)							
Soffit: 2.00		TCDL: 5.0 psf		IBC 2018		Max TC CSI: 0.754		G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration: 1.15		BCDL: 3.0 psf		TPI Std: 2014		Max BC CSI: 0.635		Bearings L & G are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: h to 2h		Rep Fac: Yes		Max Web CSI: 0.860		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)				Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall: not in 14.50 ft		Plate Type(s):				Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18		WAVE_18SS		VIEW Ver: 21.02.00.1005.17		A - B		199 - 3480		C - D		195 - 3512	
		Wind Duration: 1.60													

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

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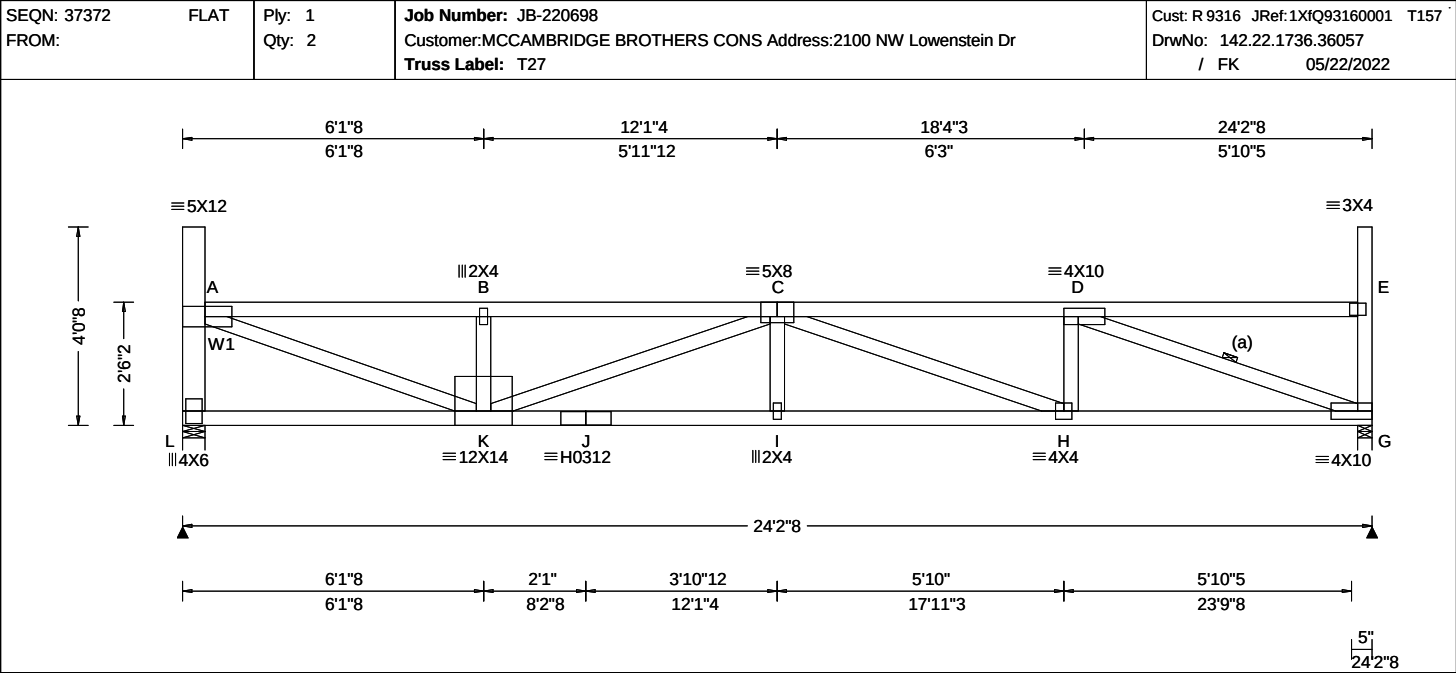
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.18 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.268 I 999 360 VERT(CL): 0.497 I 584 240 HORZ(LL): 0.051 G - - HORZ(TL): 0.094 G - - Creep Factor: 2.0 Max TC CSI: 0.719 Max BC CSI: 0.629 Max Web CSI: 0.846 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /86 /127 G 1553 /- /- /737 /88 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 196 -3416 C - D 192 -3448 B - C 195 -3412

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.53 20.04 4.83
23.92 0.00 23.46 1.53 20.04 4.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

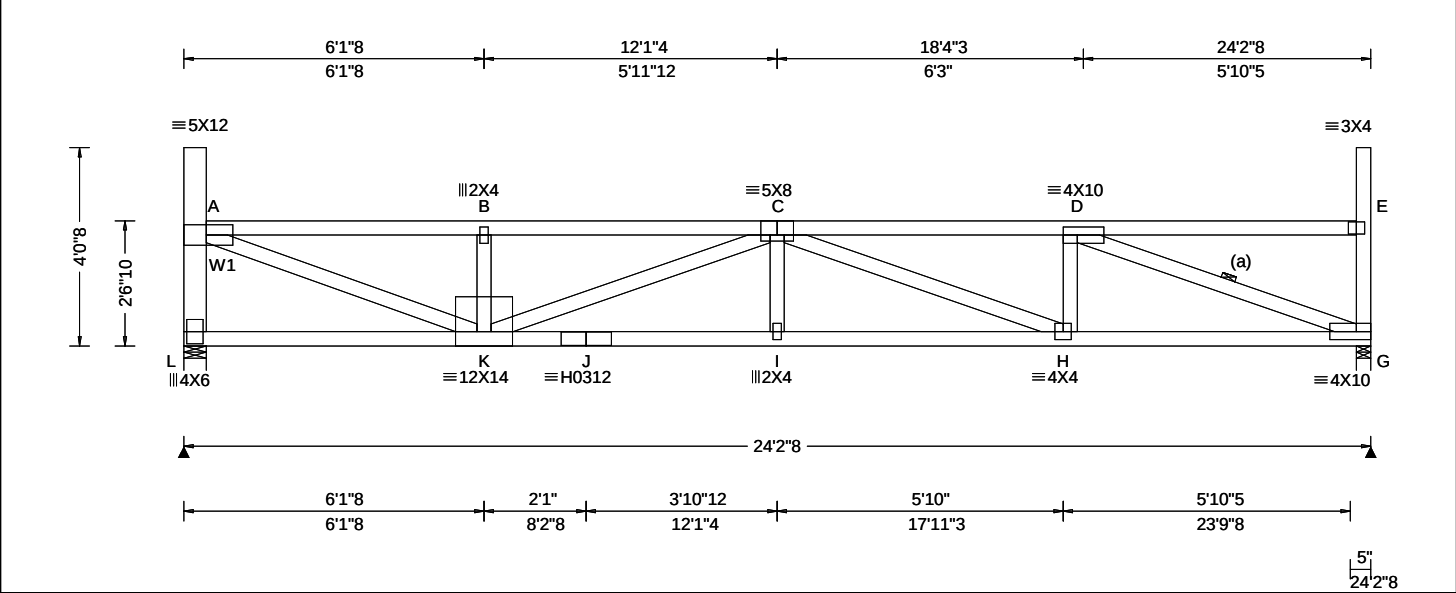


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Building 13

SEQN: 37373 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T28	Cust: R 9316 JRef:1XIQ93160001 T181 DrwNo: 142.22.1736.38320 / FK 05/22/2022
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Loading Criteria (psf) TCCL: 20.00 TCDL: 15.00 BCCL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.258 I 999 360 VERT(CL): 0.480 I 604 240 HORZ(LL): 0.050 G - - HORZ(TL): 0.093 G - - Creep Factor: 2.0 Max TC CSI: 0.687 Max BC CSI: 0.623 Max Web CSI: 0.832 VIEW Ver: 21.02.00.1005.17	Maximum Reactions (lbs) Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /86 /126 G 1553 /- /- /736 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 193 - 3355 C - D 189 - 3386 B - C 192 - 3350
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Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.49 18.65 4.50
23.92 0.00 23.46 1.49 18.65 4.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

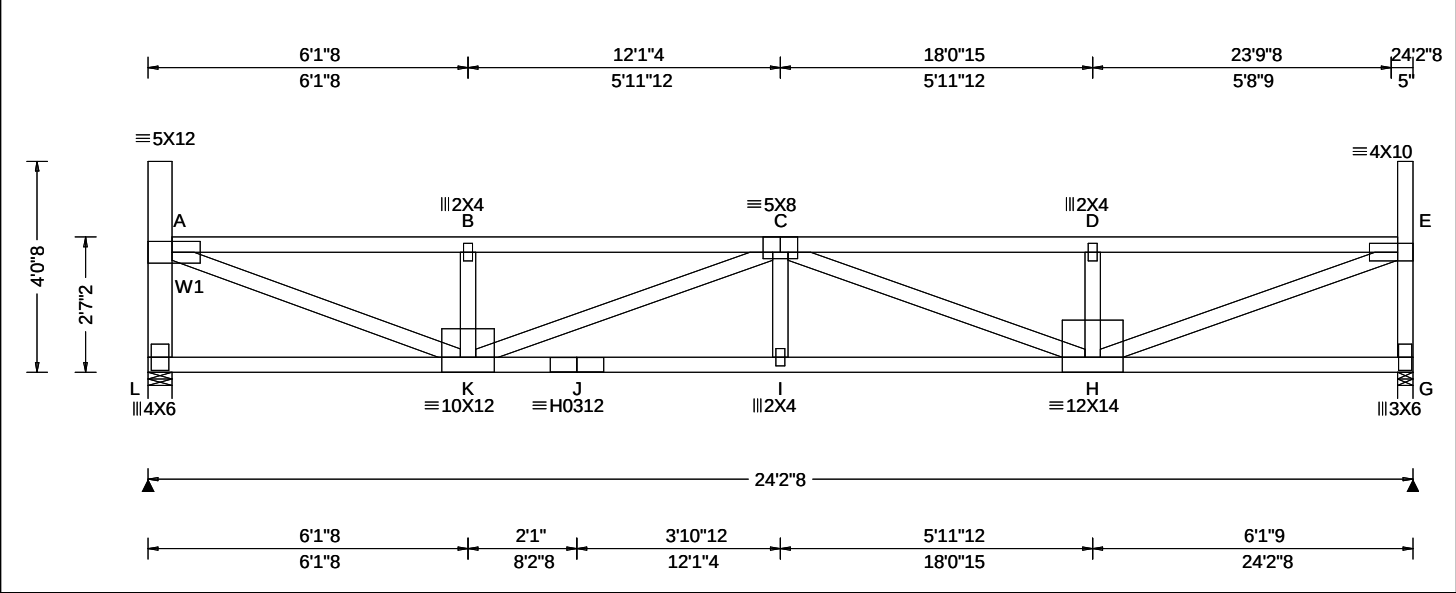


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37374 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T29	Cust: R 9316 JRef:1XIQ93160001 T182 DrwNo: 142.22.1736.41100 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.476 I 610 240 HORZ(LL): 0.049 A - - HORZ(TL): 0.090 A - - Creep Factor: 2.0 Max TC CSI: 0.694 Max BC CSI: 0.608 Max Web CSI: 0.836 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /86 /125 G 1553 /- /- /736 /88 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 190 -3295 C - D 189 -3299 B - C 189 -3291 D - E 190 -3304

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.45 17.27 4.16
23.92 0.00 23.46 1.45 17.27 4.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



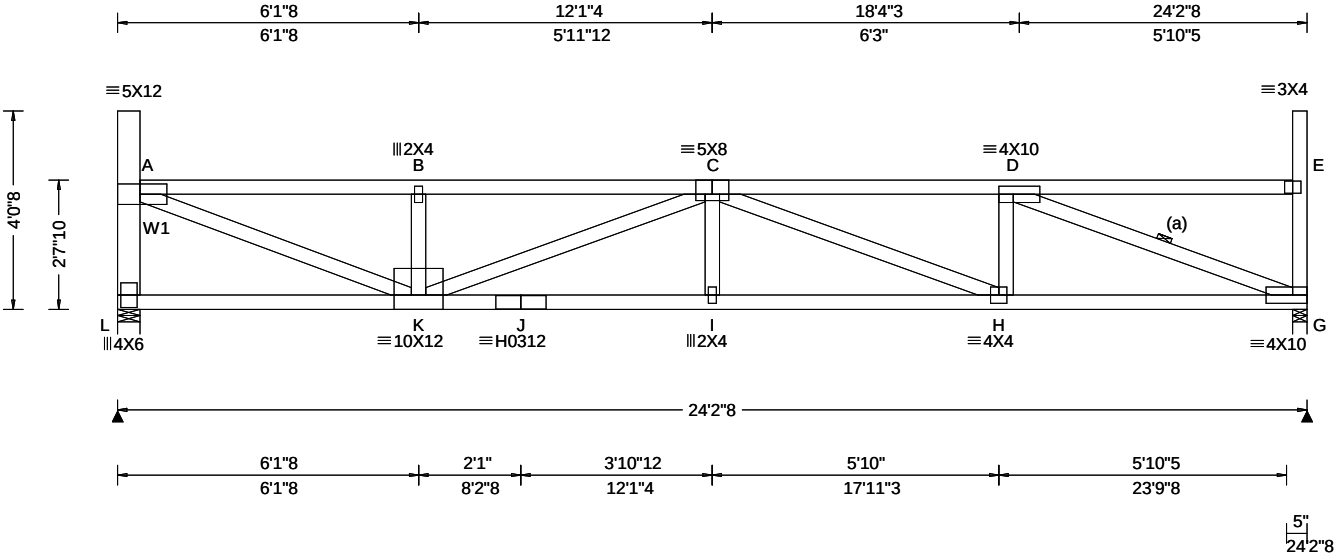
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Building 13

SEQN: 37375 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T30	Cust: R 9316 JRef:1XIQ93160001 T178 DrwNo: 142.22.1736.43433 / FK 05/22/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.242 I 999 360 VERT(CL): 0.449 I 646 240 HORZ(LL): 0.048 G - - HORZ(TL): 0.089 G - - Creep Factor: 2.0 Max TC CSI: 0.649 Max BC CSI: 0.612 Max Web CSI: 0.806 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs) <table><tr><th colspan="3">Gravity</th><th colspan="3">Non-Gravity</th></tr><tr><th>Loc</th><th>R+ / R-</th><th>/ Rh</th><th>/ Rw</th><th>/ U</th><th>/ RL</th></tr><tr><td>L</td><td>1542</td><td>/- /-</td><td>/731</td><td>/86</td><td>/123</td></tr><tr><td>G</td><td>1553</td><td>/- /-</td><td>/736</td><td>/88</td><td>/-</td></tr></table> Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table><tr><th colspan="2">Chords Tens.Comp.</th><th colspan="2">Chords Tens. Comp.</th></tr><tr><td>A - B</td><td>187 - 3238</td><td>C - D</td><td>183 - 3267</td></tr><tr><td>B - C</td><td>186 - 3232</td><td></td><td></td></tr></table>	Gravity			Non-Gravity			Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	L	1542	/- /-	/731	/86	/123	G	1553	/- /-	/736	/88	/-	Chords Tens.Comp.		Chords Tens. Comp.		A - B	187 - 3238	C - D	183 - 3267	B - C	186 - 3232		
	Gravity			Non-Gravity																																				
	Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL																																		
	L	1542	/- /-	/731	/86	/123																																		
	G	1553	/- /-	/736	/88	/-																																		
	Chords Tens.Comp.		Chords Tens. Comp.																																					
	A - B	187 - 3238	C - D	183 - 3267																																				
	B - C	186 - 3232																																						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

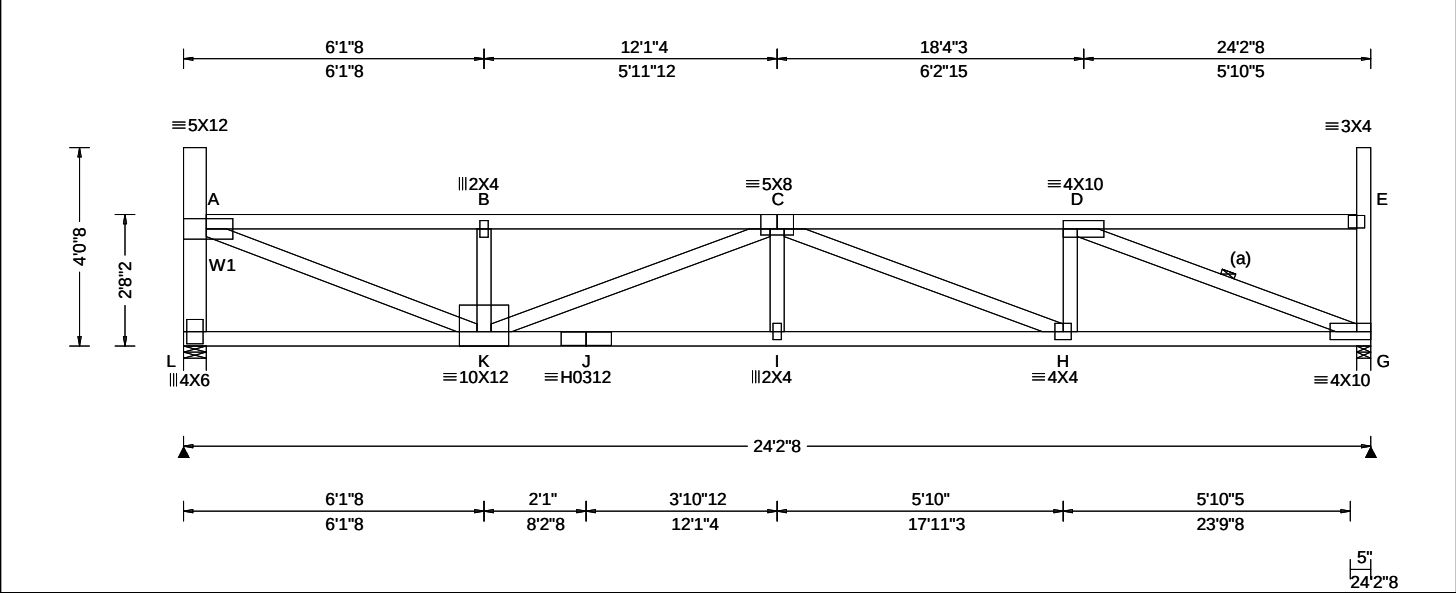
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37376 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T31	Cust: R 9316 JRef:1XIQ93160001 T185 DrwNo: 142.22.1736.45693 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.234 I 999 360 VERT(CL): 0.435 I 668 240 HORZ(LL): 0.047 G - - HORZ(TL): 0.088 G - - Creep Factor: 2.0 Max TC CSI: 0.637 Max BC CSI: 0.606 Max Web CSI: 0.794 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /86 /122 G 1553 /- /- /736 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 184 -3183 C - D 180 -3211 B - C 183 -3178

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.36 14.50 3.50
23.92 0.00 23.46 1.36 14.50 3.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

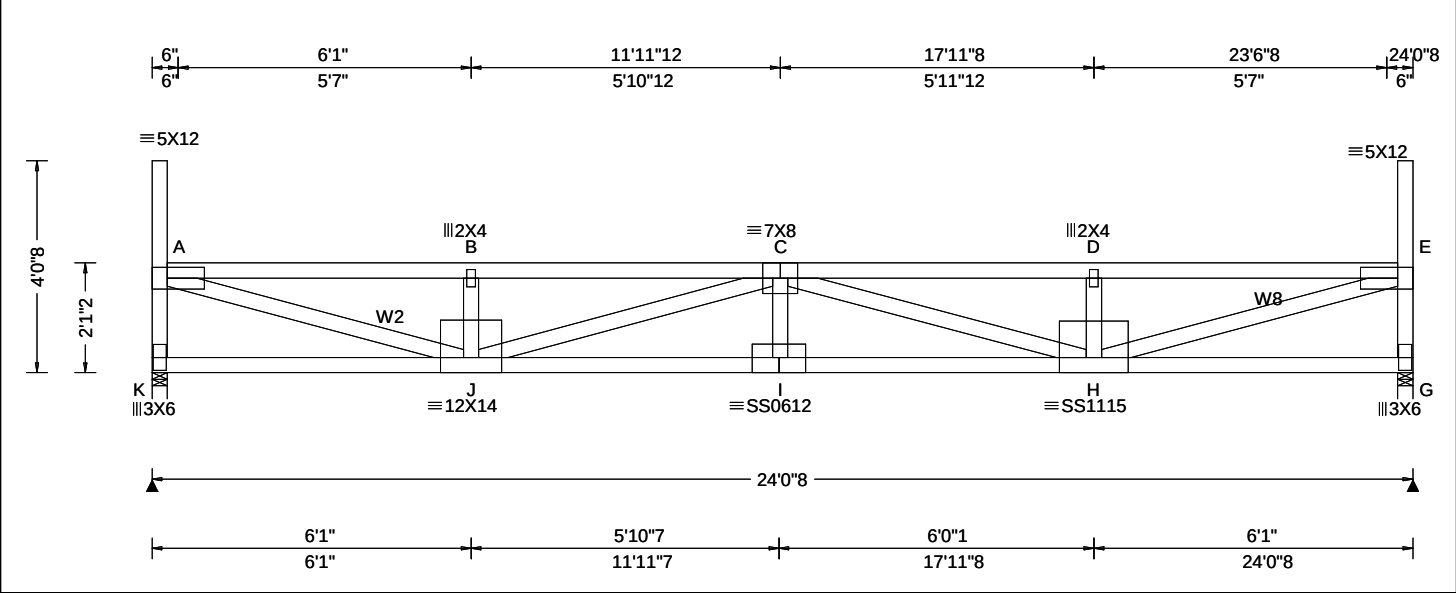


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Building 13

SEQN: 37377 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T33	Cust: R 9316 JRef:1XIQ93160001 T191 DrwNo: 142.22.1736.49590 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.76 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.380 I 759 360 VERT(CL): 0.706 I 408 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.110 A - - Creep Factor: 2.0 Max TC CSI: 0.932 Max BC CSI: 0.715 Max Web CSI: 0.844 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /733 /86 /139 G 1542 /- /- /733 /86 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 255 - 4139 C - D 254 - 4138 B - C 254 - 4133 D - E 255 - 4143

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.95 33.87 4.20
23.75 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



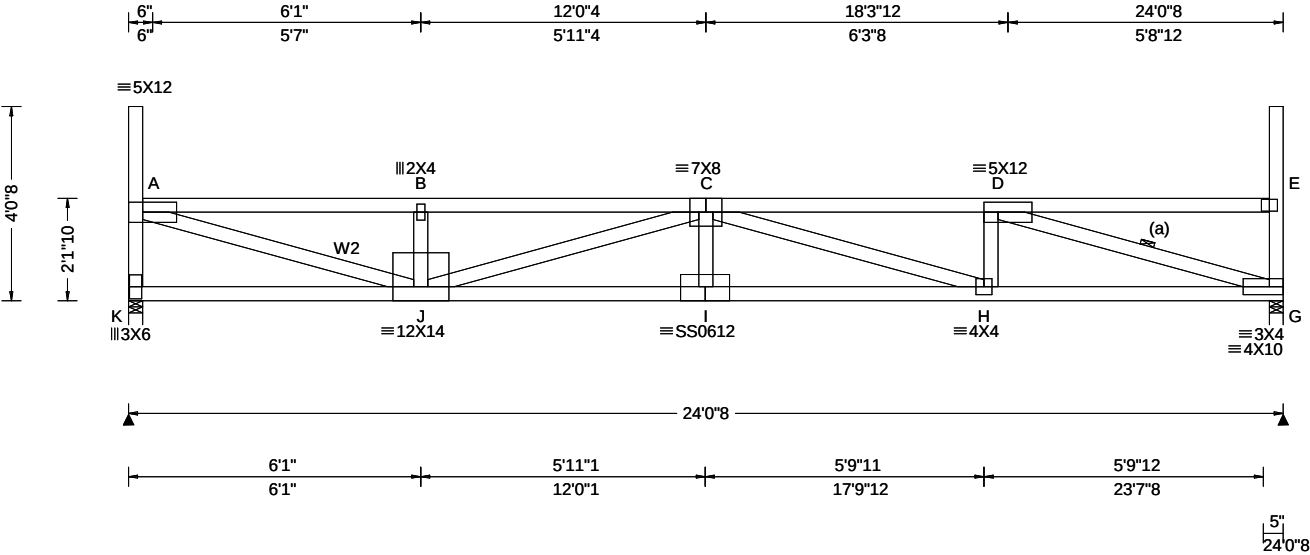
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37378 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T34	Cust: R 9316 JRef:1XIQ93160001 T200 DrwNo: 142.22.1736.51790 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.363 I 795 360 VERT(CL): 0.674 I 428 240 HORZ(LL): 0.059 G - - HORZ(TL): 0.110 G - - Creep Factor: 2.0 Max TC CSI: 0.916 Max BC CSI: 0.703 Max Web CSI: 0.849 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1542 /- /- /733 /86 /138 G 1542 /- /- /733 /86 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 250 -4051 C - D 247 -4073 B - C 249 -4046

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

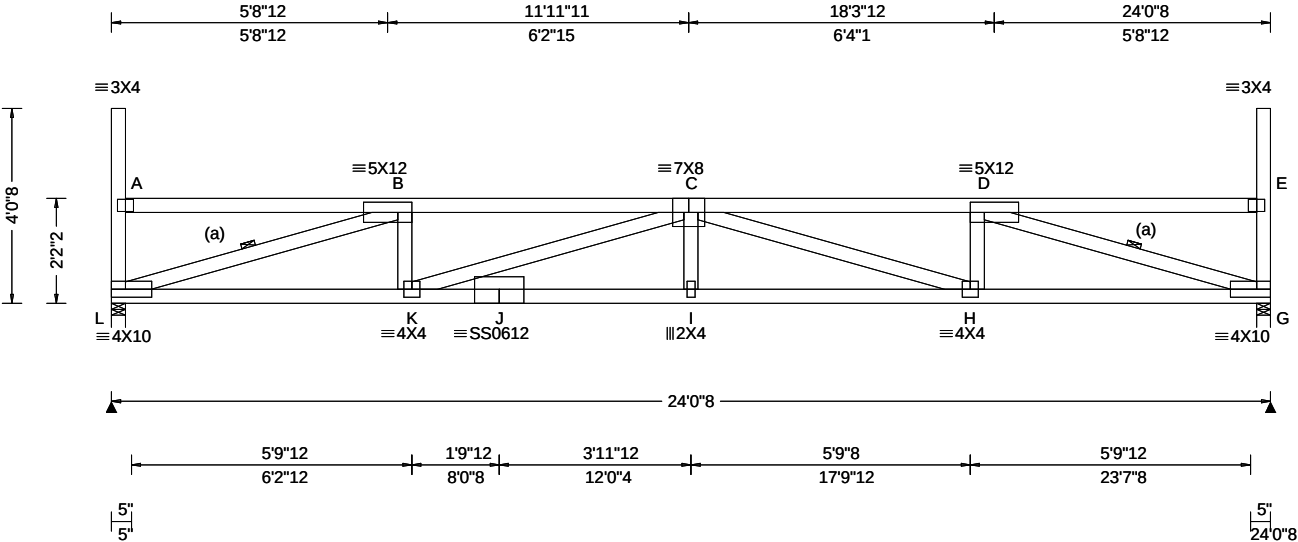
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37379 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T35	Cust: R 9316 JRef:1XIQ93160001 T205 DrwNo: 142.22.1736.54197 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.84 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.346 I 833 360 VERT(CL): 0.643 I 448 240 HORZ(LL): 0.073 G - - HORZ(TL): 0.136 G - - Creep Factor: 2.0 Max TC CSI: 0.679 Max BC CSI: 0.683 Max Web CSI: 0.833 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 /- /- /732 /86 /136 G 1541 /- /- /732 /86 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 240 -3982 C - D 240 -3981

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



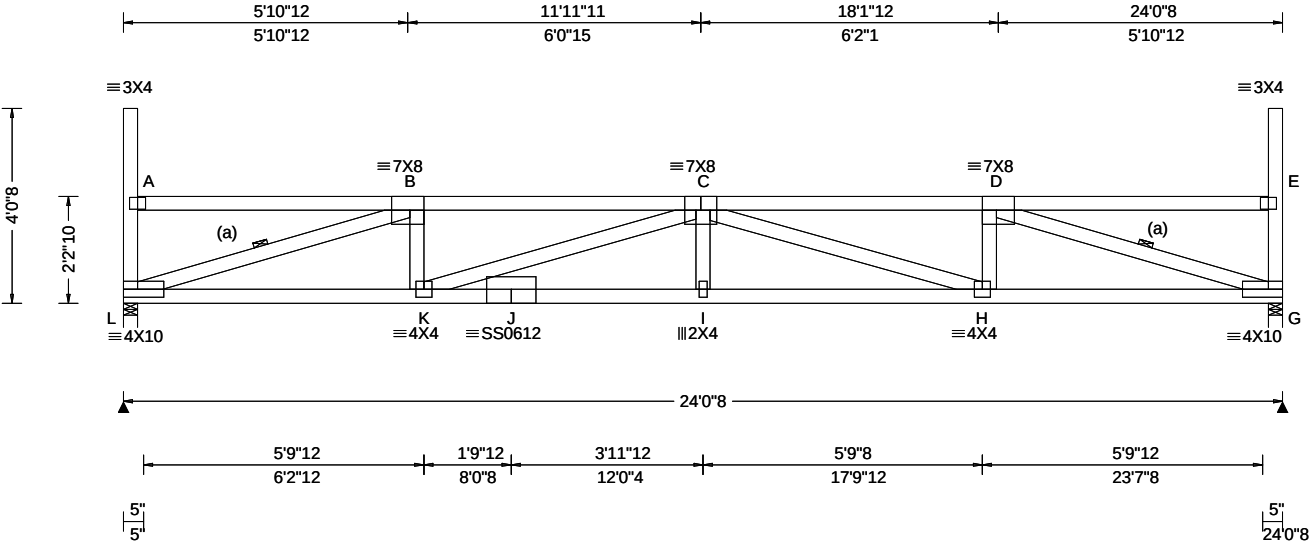
05/22/2022

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Building 13

SEQN: 37380 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T36	Cust: R 9316 JRef:1XIQ93160001 T213 DrwNo: 142.22.1736.56857 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.89 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.332 I 868 360 VERT(CL): 0.617 I 467 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.134 G - - Creep Factor: 2.0 Max TC CSI: 0.656 Max BC CSI: 0.673 Max Web CSI: 0.820 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				L	1541	/-	/-	/732	/86	/135
				G	1541	/-	/-	/732	/86	/-
				Wind reactions based on MWFRS						
				L	Brg Wid = 3.5	Min Req = 2.0 (Truss)				
				G	Brg Wid = 3.5	Min Req = 2.0 (Truss)				
				Bearings L & G are a rigid surface.						
				Members not listed have forces less than 375#						
				Maximum Top Chord Forces Per Ply (lbs)						
				Chords	Tens.Comp.	Chords	Tens. Comp.			
				B - C	236 - 3898	C - D	236 - 3897			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



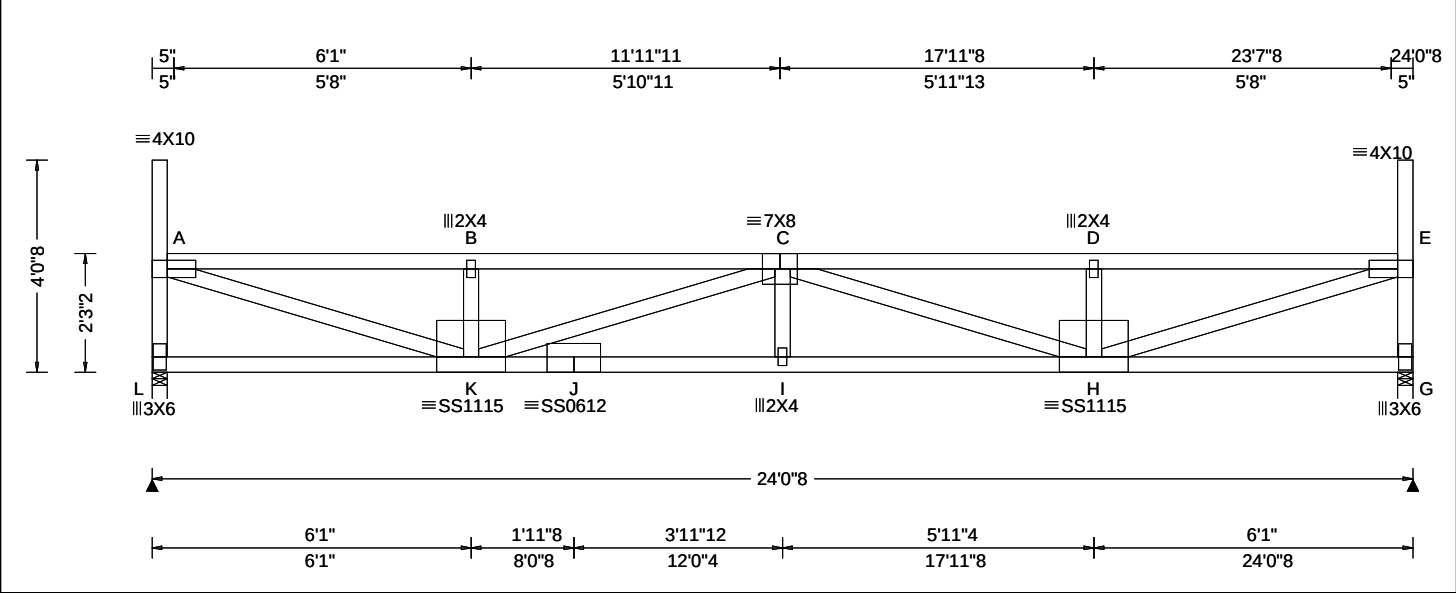
05/22/2022

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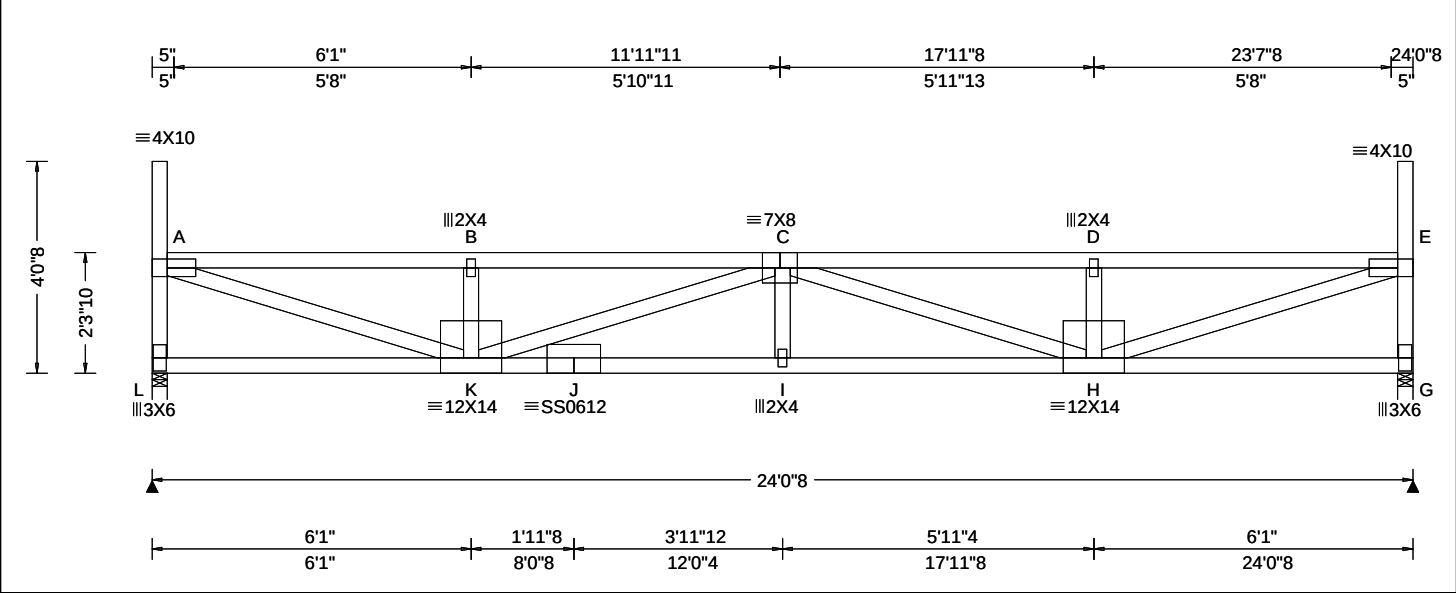
Building 13

SEQN: 37381 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T37	Cust: R 9316 JRef:1XIQ93160001 T204 DrwNo: 142.22.1736.59167 / FK 05/22/2022
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Building 13

SEQN: 37382 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T38	Cust: R 9316 JRef:1XIQ93160001 T209 DrwNo: 142.22.1737.01483 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	L	1541	/-	/-	/732	/86	/133
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.323 I 893 360	G	1541	/-	/-	/732	/86	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.600 I 480 240	Wind reactions based on MWFRS						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.053 A - -	L Brg Wid = 3.5 Min Req = 2.0 (Truss)						
Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	EXP: B Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	HORZ(TL): 0.099 A - -	G Brg Wid = 3.5 Min Req = 2.0 (Truss)						
	Mean Height: 21.97 ft		Bearings L & G are a rigid surface.							
	TCDL: 5.0 psf		Members not listed have forces less than 375#							
	BCDL: 3.0 psf		Maximum Top Chord Forces Per Ply (lbs)							
	MWFRS Parallel Dist: h/2 to h		Chords Tens.Comp. Chords Tens. Comp.							
	C&C Dist a: 3.00 ft		A - B 209 - 3715 C - D 208 - 3709							
	Loc. from endwall: not in 14.50 ft		B - C 208 - 3710 D - E 209 - 3714							
	GCpi: 0.18									
	Wind Duration: 1.60									
	VIEW Ver: 21.02.00.1005.17									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.74 26.95 5.28
23.75 0.00 23.46 1.74 26.95 5.28
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



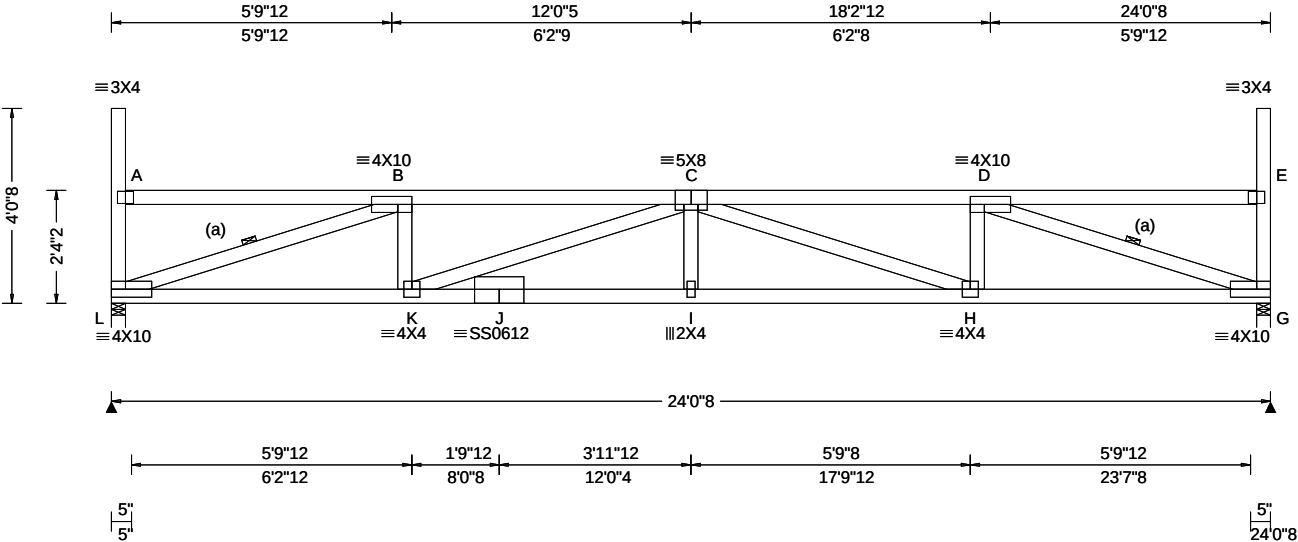
05/22/2022

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Building 13

SEQN: 37383 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T39	Cust: R 9316 JRef:1XIQ93160001 T199 DrwNo: 142.22.1737.03983 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity							
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(LL): 0.296 I 976 360	L	1542	/-	/-	/732	/87	/132
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	VERT(CL): 0.549 I 525 240	G	1542	/-	/-	/732	/87	/-
	Des Ld: 65.00	EXP: B Kzt: NA		HORZ(LL): 0.068 G - -	Wind reactions based on MWFRS						
	NCBCLL: 0.00	Mean Height: 22.01 ft	Building Code:	HORZ(TL): 0.126 G - -	L	Brg Wid = 3.5	Min Req = 2.0	(Truss)			
	Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Creep Factor: 2.0	G	Brg Wid = 3.5	Min Req = 2.0	(Truss)			
	Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max TC CSI: 0.598	Bearings L & G are a rigid surface.						
	Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max BC CSI: 0.650	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Max Web CSI: 0.783	Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords	Tens.Comp.	Chords	Tens. Comp.				
	GCp: 0.18			B - C	202 - 3671	C - D	202 - 3670				
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17								

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) <table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>L - K</td><td>3563 - 310</td><td>I - H</td><td>4703 - 294</td></tr><tr><td>K - J</td><td>4703 - 294</td><td>H - G</td><td>3562 - 201</td></tr><tr><td>J - I</td><td>4703 - 294</td><td></td><td></td></tr></table>	Chords	Tens.Comp.	Chords	Tens. Comp.	L - K	3563 - 310	I - H	4703 - 294	K - J	4703 - 294	H - G	3562 - 201	J - I	4703 - 294																				
Chords	Tens.Comp.	Chords	Tens. Comp.																																
L - K	3563 - 310	I - H	4703 - 294																																
K - J	4703 - 294	H - G	3562 - 201																																
J - I	4703 - 294																																		
Bracing (a) Continuous lateral restraint equally spaced on member.																																			
Loading Drifting snow load has been considered for only in plane loading as follows: <table><tr><th>Location</th><th>Lu1</th><th>Lu2</th><th>Height</th><th>Pd</th><th>W</th></tr><tr><td></td><td>0.29</td><td>0.00</td><td>23.46</td><td>1.70</td><td>25.57</td></tr><tr><td></td><td>23.75</td><td>0.00</td><td>23.46</td><td>1.70</td><td>25.57</td></tr></table> Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Location	Lu1	Lu2	Height	Pd	W		0.29	0.00	23.46	1.70	25.57		23.75	0.00	23.46	1.70	25.57	Maximum Web Forces Per Ply (lbs) <table><tr><th>Webs</th><th>Tens.Comp.</th><th>Webs</th><th>Tens. Comp.</th></tr><tr><td>L - B</td><td>226 - 3721</td><td>C - H</td><td>115 - 1096</td></tr><tr><td>B - K</td><td>769 0</td><td>H - D</td><td>769 0</td></tr><tr><td>K - C</td><td>117 - 1095</td><td>D - G</td><td>226 - 3719</td></tr></table>	Webs	Tens.Comp.	Webs	Tens. Comp.	L - B	226 - 3721	C - H	115 - 1096	B - K	769 0	H - D	769 0	K - C	117 - 1095	D - G	226 - 3719
Location	Lu1	Lu2	Height	Pd	W																														
	0.29	0.00	23.46	1.70	25.57																														
	23.75	0.00	23.46	1.70	25.57																														
Webs	Tens.Comp.	Webs	Tens. Comp.																																
L - B	226 - 3721	C - H	115 - 1096																																
B - K	769 0	H - D	769 0																																
K - C	117 - 1095	D - G	226 - 3719																																

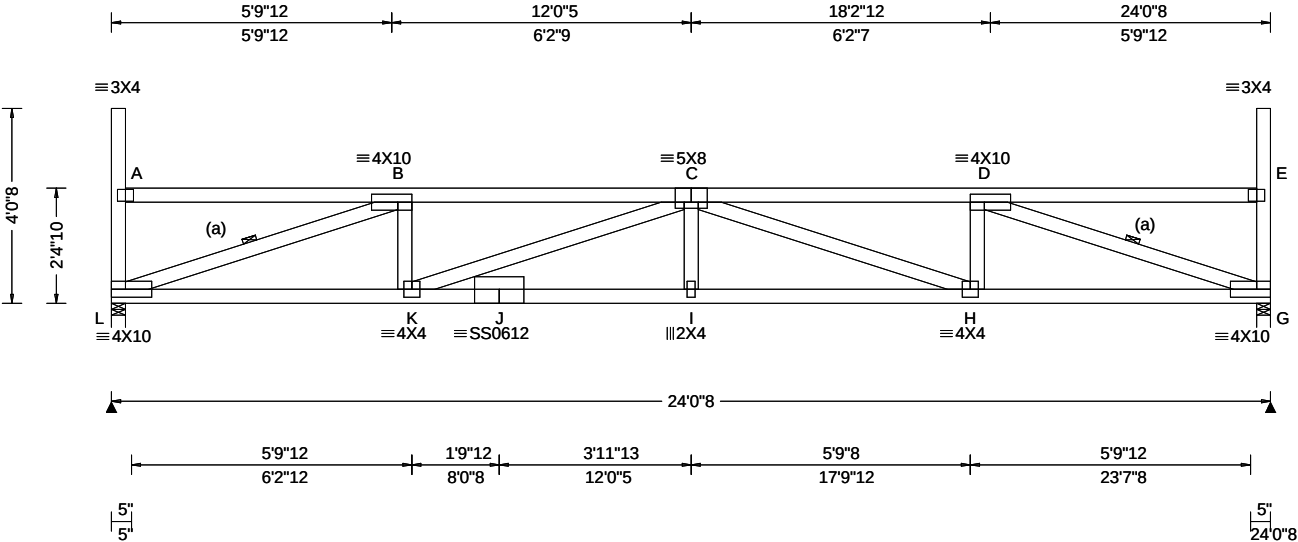


05/22/2022

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Building 13

SEQN: 37384 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T40	Cust: R 9316 JRef:1XIQ93160001 T211 DrwNo: 142.22.1737.06173 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.285 I 999 360 VERT(CL): 0.529 I 545 240 HORZ(LL): 0.066 G - - HORZ(TL): 0.123 G - - Creep Factor: 2.0 Max TC CSI: 0.583 Max BC CSI: 0.643 Max Web CSI: 0.772 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /87 /131 G 1542 /- /- /732 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -3600 C - D 199 -3598

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3494 -305 I - H 4611 -290 K - J 4611 -290 H - G 3492 -199 J - I 4611 -290
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.66 24.19 5.83 23.75 0.00 23.46 1.66 24.19 5.83 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 222 -3657 C - H 113 -1077 B - K 769 0 H - D 769 0 K - C 114 -1075 D - G 222 -3655

Deflection
Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



05/22/2022

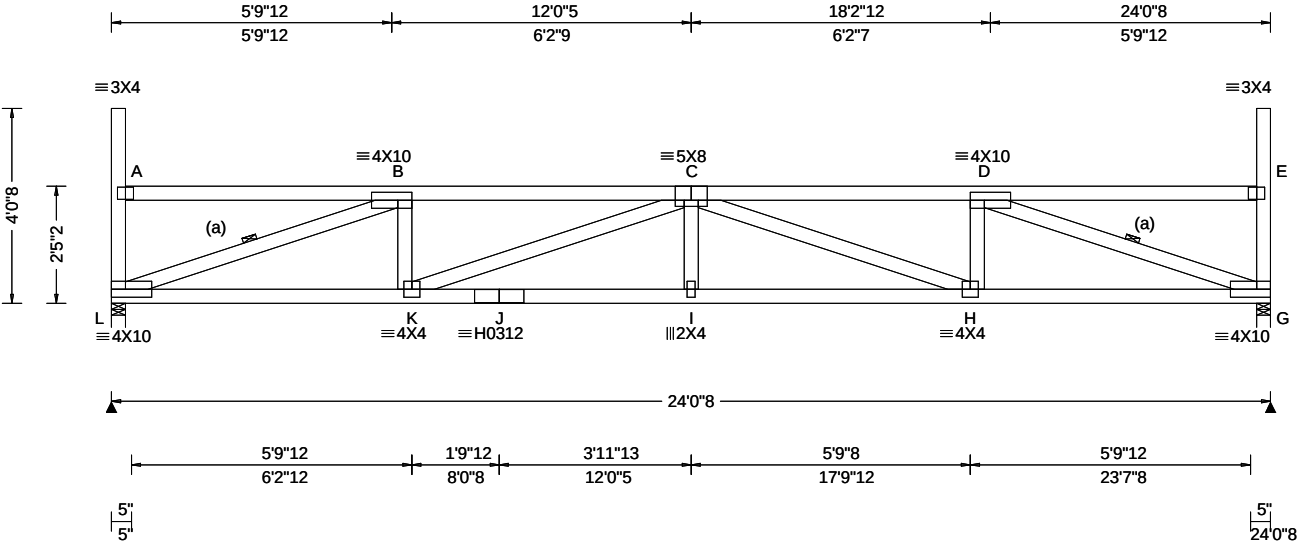
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37385 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T41	Cust: R 9316 JRef:1XIQ93160001 T201 DrwNo: 142.22.1737.08863 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.274 I 999 360 VERT(CL): 0.510 I 565 240 HORZ(LL): 0.065 G - - HORZ(TL): 0.121 G - - Creep Factor: 2.0 Max TC CSI: 0.568 Max BC CSI: 0.637 Max Web CSI: 0.761 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1542 /- /- /732 /87 /129 G 1542 /- /- /732 /87 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 195 -3531 C - D 196 -3530

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3427 -320 I - H 4522 -286 K - J 4522 -286 H - G 3426 -197 J - I 4522 -286
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.61 22.80 5.50 23.75 0.00 23.46 1.61 22.80 5.50 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 219 -3595 C - H 118 -1058 B - K 769 -1 H - D 769 0 K - C 120 -1056 D - G 218 -3594

Deflection
Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

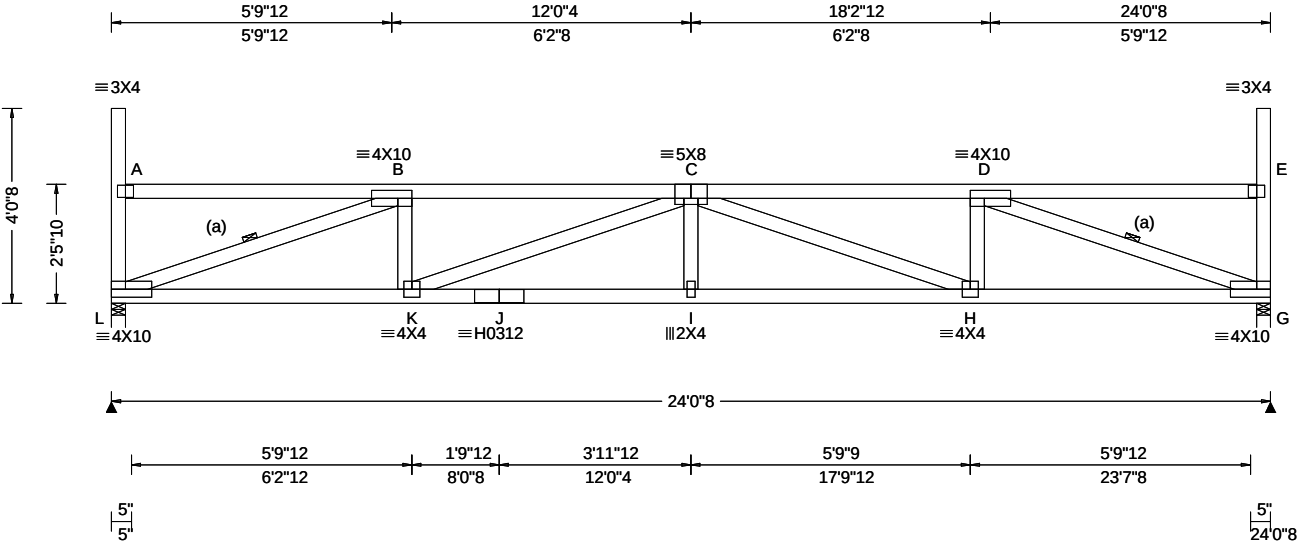
Additional Notes
Truss must be installed as shown with top chord up.

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37386 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T42	Cust: R 9316 JRef:1XIQ93160001 T195 DrwNo: 142.22.1737.11367 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity						
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	L	1542	/-	/-	/732	/87	/128
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	G	1542	/-	/-	/732	/87	/-
	Des Ld: 65.00	EXP: B Kzt: NA		Wind reactions based on MWFRS						
	NCBCLL: 0.00	Mean Height: 22.14 ft	Building Code:	L	Brg Wid = 3.5	Min Req = 2.0	(Truss)			
	Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	G	Brg Wid = 3.5	Min Req = 2.0	(Truss)			
	Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Bearings L & G are a rigid surface.						
	Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: Any	Plate Type(s):	Chords	Tens.Comp.	Chords	Tens. Comp.				
	GCpi: 0.18		B - C	192	- 3465	C - D	193	- 3464		
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17							

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) <table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>L - K</td><td>3363 - 315</td><td>I - H</td><td>4437 - 282</td></tr><tr><td>K - J</td><td>4437 - 282</td><td>H - G</td><td>3362 - 195</td></tr><tr><td>J - I</td><td>4437 - 282</td><td></td><td></td></tr></table>	Chords	Tens.Comp.	Chords	Tens. Comp.	L - K	3363 - 315	I - H	4437 - 282	K - J	4437 - 282	H - G	3362 - 195	J - I	4437 - 282																				
Chords	Tens.Comp.	Chords	Tens. Comp.																																
L - K	3363 - 315	I - H	4437 - 282																																
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J - I	4437 - 282																																		
Bracing (a) Continuous lateral restraint equally spaced on member.																																			
Loading Drifting snow load has been considered for only in plane loading as follows: <table><tr><th>Location</th><th>Lu1</th><th>Lu2</th><th>Height</th><th>Pd</th><th>W</th></tr><tr><td></td><td>0.29</td><td>0.00</td><td>23.46</td><td>1.57</td><td>21.42 5.16</td></tr><tr><td></td><td>23.75</td><td>0.00</td><td>23.46</td><td>1.57</td><td>21.42 5.16</td></tr></table> Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Location	Lu1	Lu2	Height	Pd	W		0.29	0.00	23.46	1.57	21.42 5.16		23.75	0.00	23.46	1.57	21.42 5.16	Maximum Web Forces Per Ply (lbs) <table><tr><th>Webs</th><th>Tens.Comp.</th><th>Webs</th><th>Tens. Comp.</th></tr><tr><td>L - B</td><td>215 - 3536</td><td>C - H</td><td>116 - 1039</td></tr><tr><td>B - K</td><td>769 0</td><td>H - D</td><td>769 0</td></tr><tr><td>K - C</td><td>117 - 1038</td><td>D - G</td><td>215 - 3535</td></tr></table>	Webs	Tens.Comp.	Webs	Tens. Comp.	L - B	215 - 3536	C - H	116 - 1039	B - K	769 0	H - D	769 0	K - C	117 - 1038	D - G	215 - 3535
Location	Lu1	Lu2	Height	Pd	W																														
	0.29	0.00	23.46	1.57	21.42 5.16																														
	23.75	0.00	23.46	1.57	21.42 5.16																														
Webs	Tens.Comp.	Webs	Tens. Comp.																																
L - B	215 - 3536	C - H	116 - 1039																																
B - K	769 0	H - D	769 0																																
K - C	117 - 1038	D - G	215 - 3535																																

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

05/22/2022

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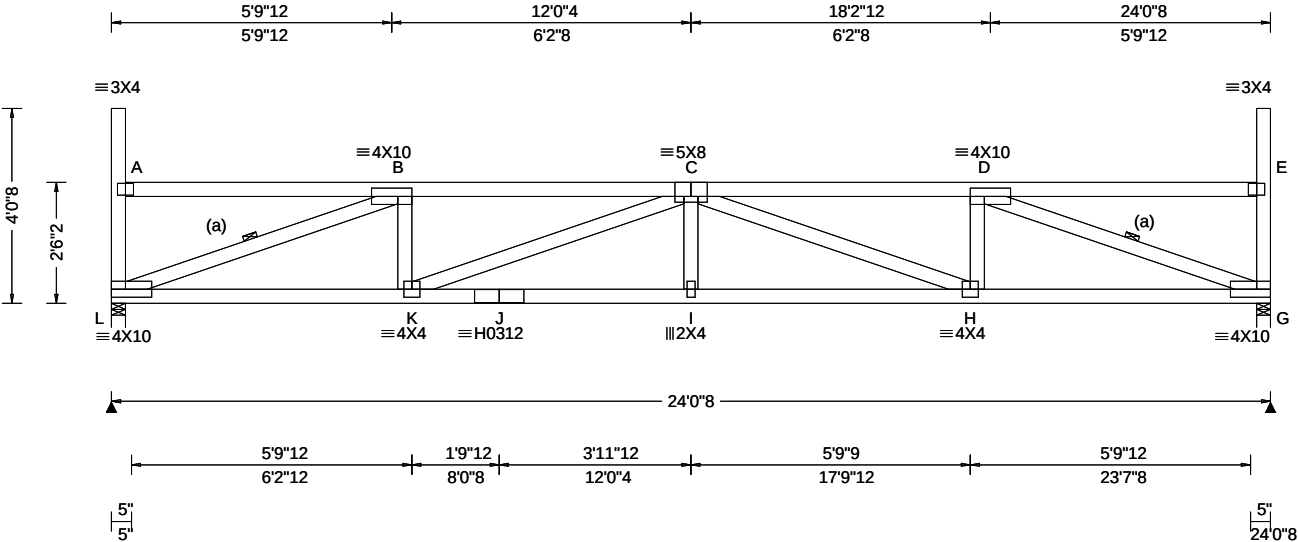
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37387 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T43	Cust: R 9316 JRef:1XIQ93160001 T198 DrwNo: 142.22.1737.14090 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.18 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.255 I 999 360 VERT(CL): 0.475 I 607 240 HORZ(LL): 0.063 G - - HORZ(TL): 0.116 G - - Creep Factor: 2.0 Max TC CSI: 0.540 Max BC CSI: 0.625 Max Web CSI: 0.741 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /87 /127 G 1542 /- /- /732 /87 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 211 - 3401 C - D 211 - 3400

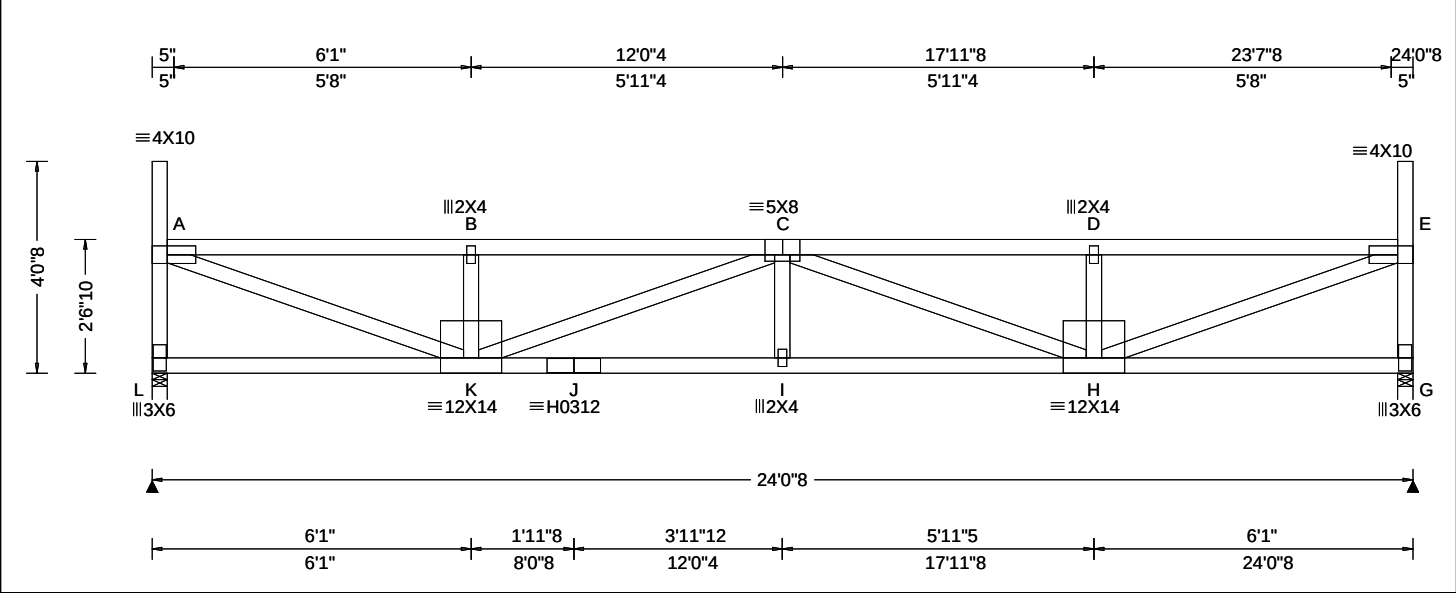
Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3301 - 310 I - H 4354 - 278 K - J 4354 - 278 H - G 3300 - 192 J - I 4354 - 278
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.53 20.04 4.83 23.75 0.00 23.46 1.53 20.04 4.83 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 212 - 3479 C - H 113 - 1022 B - K 769 0 H - D 769 0 K - C 114 - 1021 D - G 212 - 3478

Deflection Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.	Additional Notes Truss must be installed as shown with top chord up.	
05/22/2022		

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 13

SEQN: 37388 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T44	Cust: R 9316 JRef:1XIQ93160001 T202 DrwNo: 142.22.1737.16577 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.260 I 999 360 VERT(CL): 0.482 I 597 240 HORZ(LL): 0.048 A - - HORZ(TL): 0.089 A - - Creep Factor: 2.0 Max TC CSI: 0.693 Max BC CSI: 0.608 Max Web CSI: 0.838 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /87 /126 G 1542 /- /- /732 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 211 - 3318 C - D 211 - 3312 B - C 211 - 3313 D - E 211 - 3317

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4276 - 272 I - H 4276 - 272 J - I 4276 - 272
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.49 18.65 4.50 23.75 0.00 23.46 1.49 18.65 4.50 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 102 - 1385 C - H 107 - 1032 A - K 3417 - 209 H - E 3416 - 210 B - K 79 - 376 D - H 80 - 376 K - C 110 - 1030 E - G 102 - 1385
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Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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Deflection Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.
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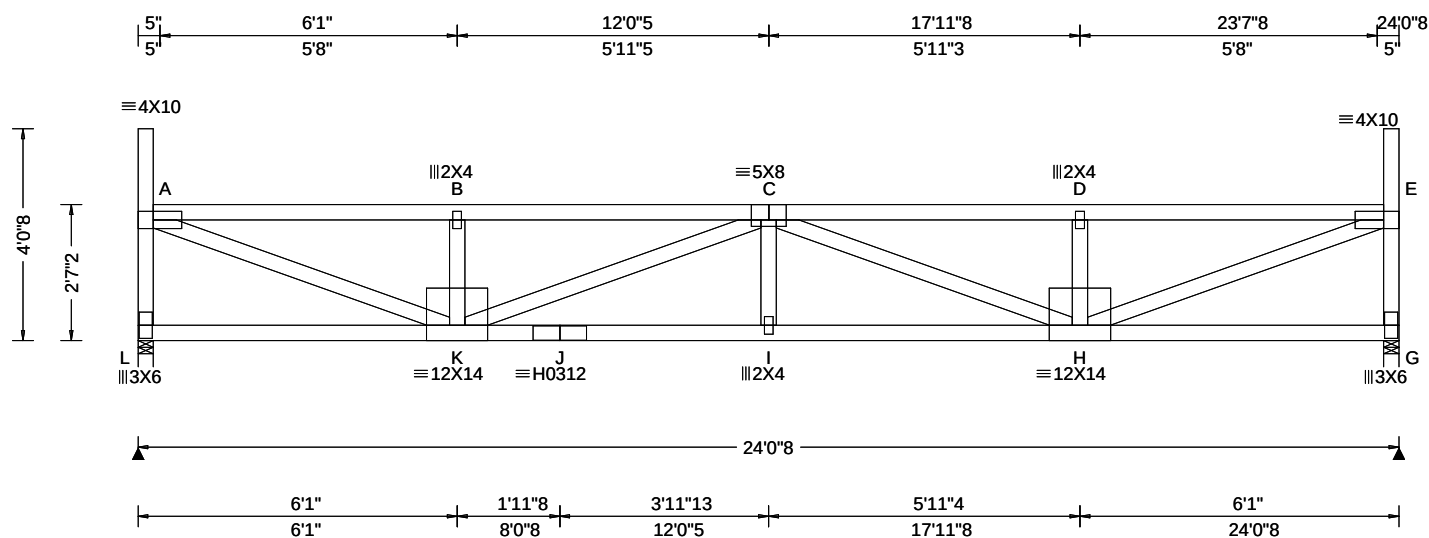


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Building 13

SEQN: 37389	FLAT	Ply: 1	Job Number: JB-220698	Cust: R 9316 JRef:1XIQ93160001 T196
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1737.19050
			Truss Label: T45	/ FK 05/22/2022



Leading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.251 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.466 I 618 240	L 1542 /- /- /731 /87 /125
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.047 A - -	G 1542 /- /- /731 /87 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.088 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.26 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.676	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.602	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.825	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	WAVE, HS	VIEW Ver: 21.02.00.1005.17	A - B 208 - 3260 C - D 207 - 3253
	Wind Duration: 1.60			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.45	17.27	4.16
23.75	0.00	23.46	1.45	17.27	4.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

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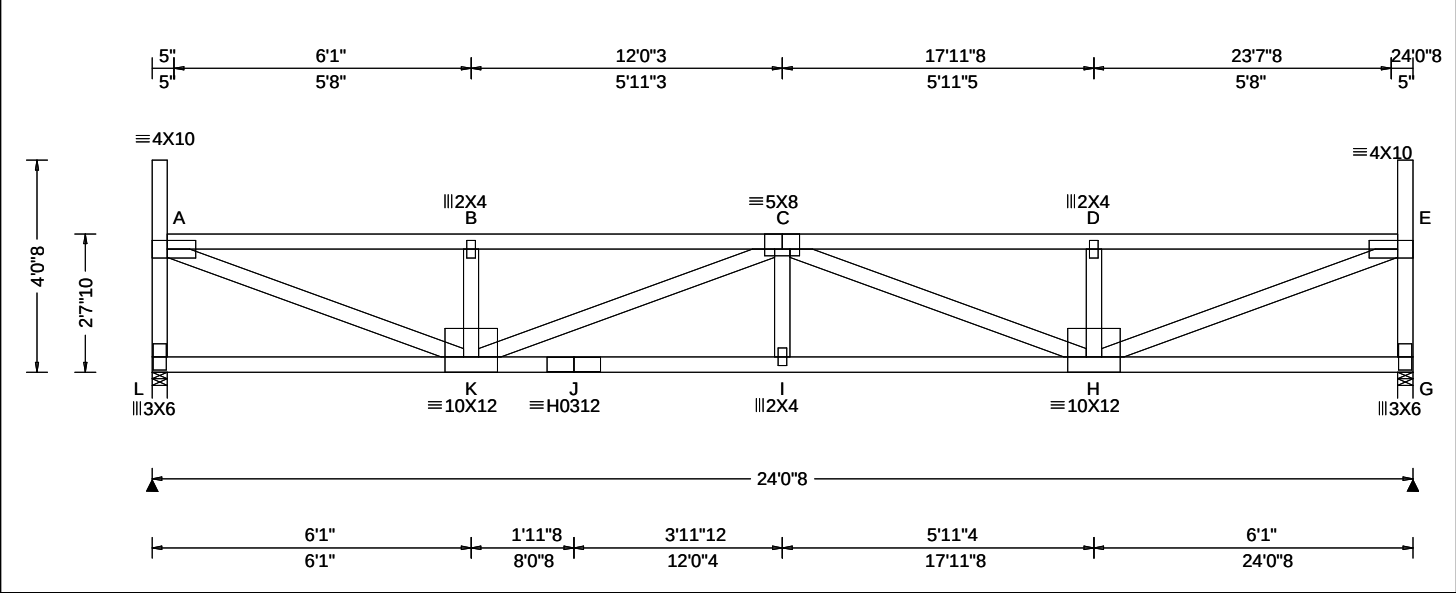
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37390 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T46	Cust: R 9316 JRef:1XIQ93160001 T207 DrwNo: 142.22.1737.23047 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.243 I 999 360 VERT(CL): 0.451 I 639 240 HORZ(LL): 0.046 A - - HORZ(TL): 0.086 A - - Creep Factor: 2.0 Max TC CSI: 0.663 Max BC CSI: 0.597 Max Web CSI: 0.813 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /88 /123 G 1542 /- /- /731 /88 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 205 -3203 C - D 204 -3197 B - C 204 -3198 D - E 205 -3202

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.41 15.89 3.83
23.75 0.00 23.46 1.41 15.89 3.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

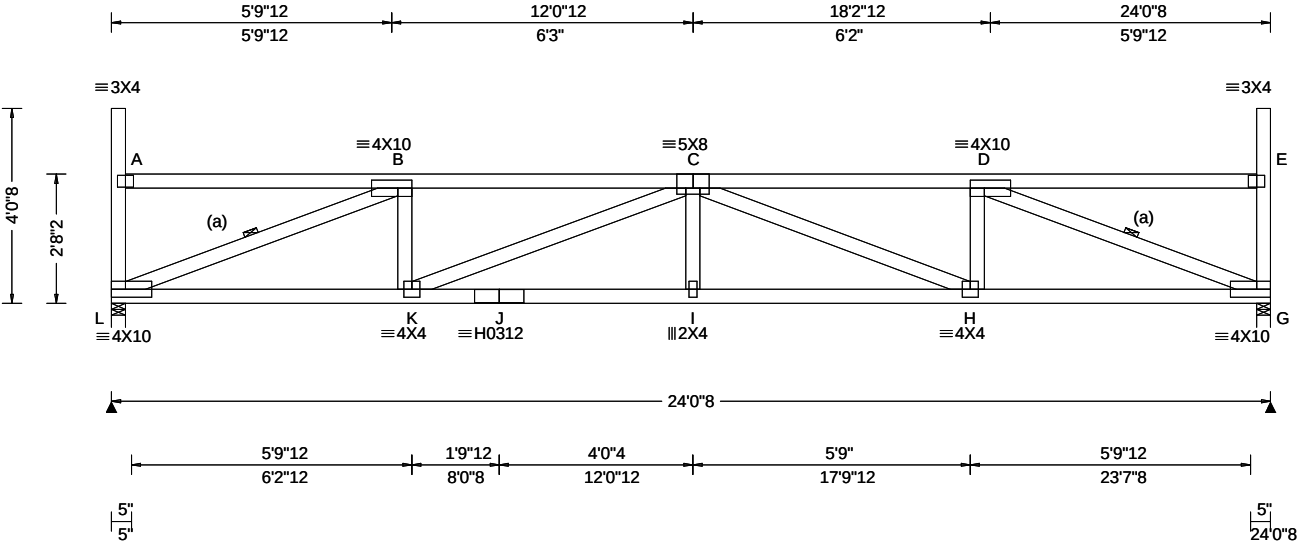
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37391 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T47	Cust: R 9316 JRef:1XIQ93160001 T203 DrwNo: 142.22.1737.25340 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity				
	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.223 I 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.415 I 694 240	L	1542	/-	/-	/731	/88	/122	
	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.058 G - -	G	1542	/-	/-	/731	/88	/-	
	EXP: B Kzt: NA		HORZ(TL): 0.108 G - -	Wind reactions based on MWFRS							
	Mean Height: 22.34 ft		Creep Factor: 2.0	L	Brg Wid = 3.5		Min Req = 2.0 (Truss)				
	TCDL: 5.0 psf		Max TC CSI: 0.516	G	Brg Wid = 3.5		Min Req = 2.0 (Truss)				
	BCDL: 3.0 psf		Max BC CSI: 0.604	Bearings L & G are a rigid surface.							
	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.706	Members not listed have forces less than 375#							
C&C Dist a: 3.00 ft			Maximum Top Chord Forces Per Ply (lbs)								
Loc. from endwall: Any			Chords	Tens.Comp.		Chords	Tens. Comp.				
GCpi: 0.18			B - C	199 - 3169		C - D	199 - 3166				
Wind Duration: 1.60											

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs)							
	Chords		Tens.Comp.		Chords		Tens. Comp.	
	L - K		3076 - 291		I - H		4053 - 264	
	K - J		4053 - 264		H - G		3073 - 185	
	J - I		4053 - 264					
Bracing								

Bracing (a) Continuous lateral restraint equally spaced on member.							K - J	4053	-204	H - G	5073	-103
							J - I	4053	-264			
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W							Maximum Web Forces Per Ply (lbs)					
							Webs	Tens.Comp.		Webs	Tens. Comp.	
							L - B	200 - 3274		C - H	104 - 960	
							B - K	768 0		H - D	770 0	
							K - C	105 - 955		D - G	200 - 3270	

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.36 14.50 3.50
23.75 0.00 23.46 1.36 14.50 3.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

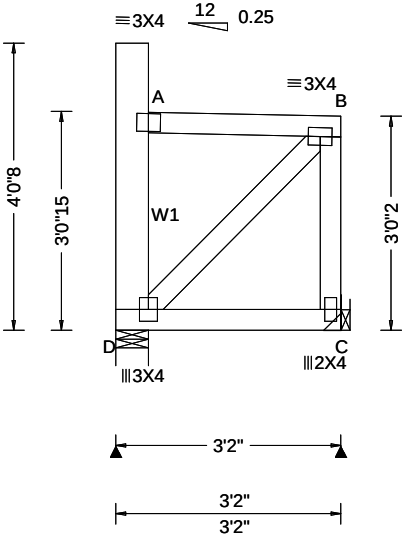


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Building 13

SEQN: 37392 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48	Cust: R 9316 JRef:1XIQ93160001 T197 DrwNo: 142.22.1737.27283 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	176	/-	/-	/111	/53	/78
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.001 B 999 240	C	204	/-	/-	/150	/47	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 22.71 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = - Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.139	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.123	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.033							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes
Truss must be installed as shown with top chord up.



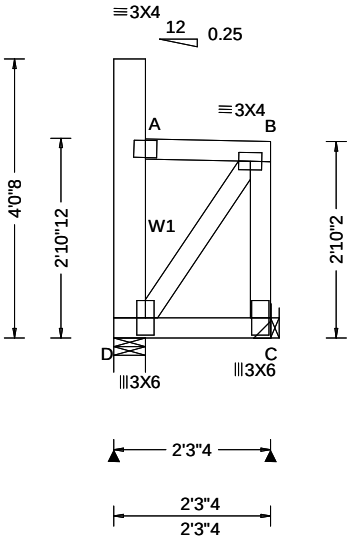
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37393 FROM:	MONO Ply: 1 Qty: 16	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T49	Cust: R 9316 JRef:1XIQ93160001 T217 DrwNo: 142.22.1737.29410 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg:	20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#		Gravity			Non-Gravity			
TCDL:	15.00	Speed:	109 mph	Pf:	15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure:	Closed	Lu:	- Cs: 1.00	VERT(CL): 0.000 B 999 240		D	119	/-	/-	/99	/78	/80
BCDL:	15.00	Risk Category:	II	Snow Duration: 1.15		HORZ(LL): 0.001 A - -		C	144	/-	/-	/147	/61	/-
Des Ld:	65.00	EXP:	B Kzt: NA			HORZ(TL): 0.001 A - -		Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height:	22.53 ft			Creep Factor: 2.0		D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Soffit:	2.00	TCDL:	5.0 psf	Building Code:		Max TC CSI: 0.065		C Brg Wid = - Min Req = -						
Load Duration:	1.15	BCDL:	3.0 psf	IBC 2018		Max BC CSI: 0.063		Bearing D is a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist:	h/2 to h	TPI Std: 2014		Max Web CSI: 0.042		Members not listed have forces less than 375#						
		C&C Dist a:	3.00 ft	Rep Fac: Yes										
		Loc. from endwall:	Any	FT/RT:20(0)/10(0)										
		GCpi:	0.18	Plate Type(s):										
		Wind Duration:	1.60	WAVE		VIEW Ver: 21.02.00.1005.17								

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes
Truss must be installed as shown with top chord up.

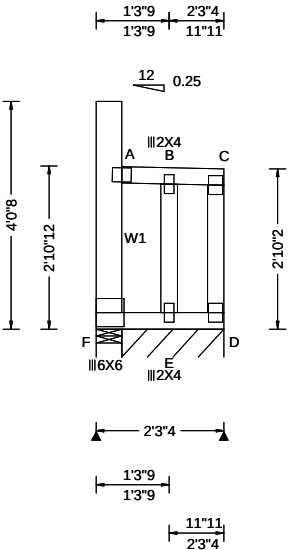


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Building 13

SEQN: 37394 FROM:	MONO Qty: 8	Ply: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T50	Cust: R 9316 JRef:1XIQ93160001 T138 DrwNo: 142.22.1737.31510 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	F	36	/-8	/-	/118	/150	/92
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240	D*	139	/-	/-	/148	/70	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.124 B - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.141 B - -	F	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 22.53 ft	Building Code:	Creep Factor: 2.0	D	Brg Wid = 21.7 Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.111	Bearings F & F are a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.255	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.115							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: not in 14.50 ft	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 3X4 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

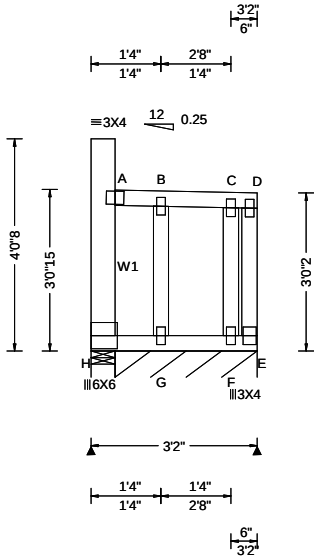


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Building 13

SEQN: 37395	GABL	Ply: 1	Job Number: JB-220698	Cust: R 9316 JRef:1XIQ93160001 T169
FROM:		Qty: 4	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1737.33463
			Truss Label: T51	/ FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=-PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.010 A 999 240	H 47 /- /- /123 /131 /90
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.122 C - -	E* 123 /- /- /106 /44 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.143 B - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.71 ft	Building Code:	Creep Factor: 2.0	H Brg Wid = 5.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.105	E Brg Wid = 32.5 Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.293	Bearings H & H are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.131	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

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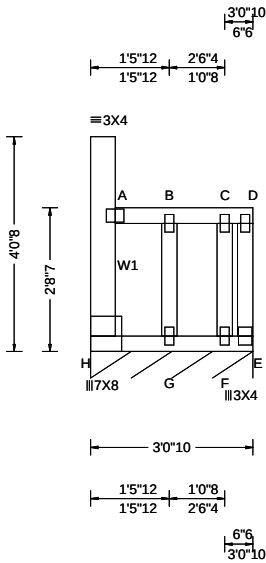
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37396	GABL	Ply: 1	Job Number: JB-220698	Cust: R 9316 JRef: 1XIQ93160001 T132
FROM:		Qty: 2	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 142.22.1737.37840
			Truss Label: T52	/ FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240	E* 119 /- /- /56 /5 /30
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.115 A - -	Wind reactions based on MWFRS
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.134 A - -	E Brg Wid = 36.6 Min Req = -
NCBCLL: 0.00	Mean Height: 22.37 ft	Building Code:	Creep Factor: 2.0	Bearing H is a rigid surface.
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.115	Members not listed have forces less than 375#
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.323	
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.142	
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		
	Loc. from endwall: Any	Plate Type(s):		
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005:17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.34	13.63	2.59

Where: Lu1 = leeward distance, Lu2 = windward distance

P_d = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

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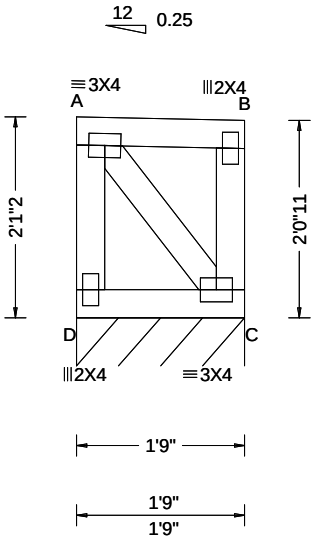
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37397 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE01	Cust: R 9316 JRef:1XIQ93160001 T188 DrwNo: 142.22.1737.39840 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.039 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS C Brg Wid = 21.0 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

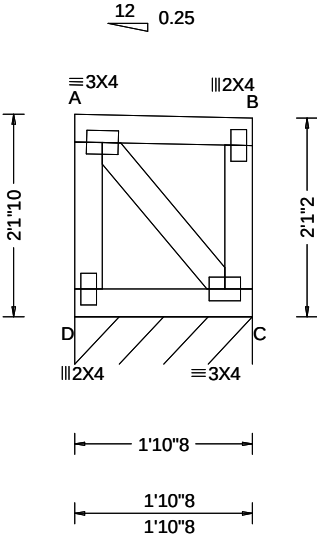
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37398 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE02	Cust: R 9316 JRef:1XIQ93160001 T189 DrwNo: 142.22.1737.41873 / FK 05/22/2022
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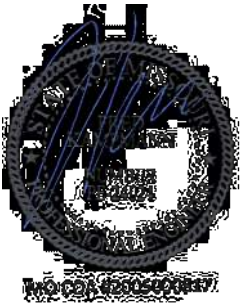


Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.12 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.022 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/18
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

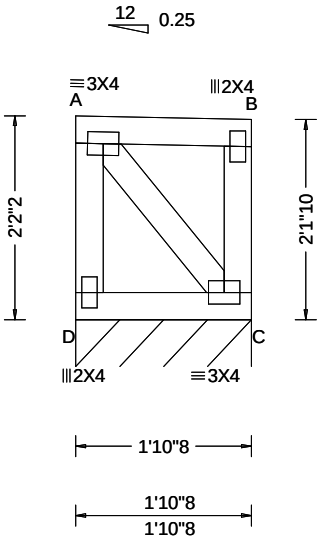


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Building 13

SEQN: 37399 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE03	Cust: R 9316 JRef:1XIQ93160001 T190 DrwNo: 142.22.1737.43777 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.16 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.023 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



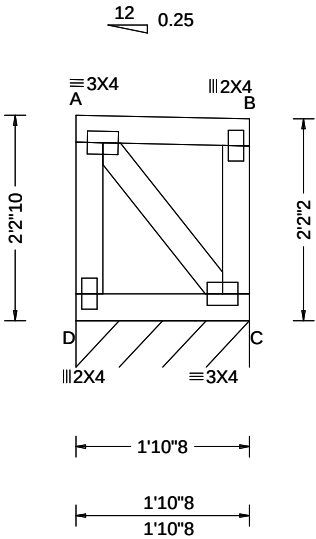
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Building 13

SEQN: 37400 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE04	Cust: R 9316 JRef:1XIQ93160001 T192 DrwNo: 142.22.1737.45910 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



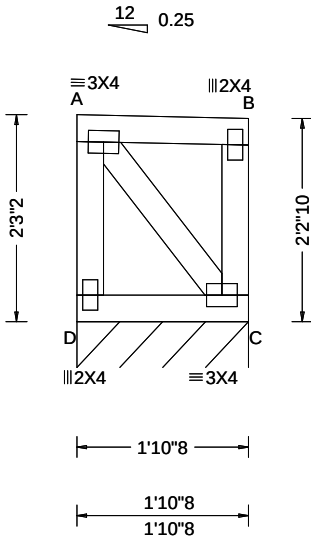
05/22/2022

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Building 13

SEQN: 37401 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE05	Cust: R 9316 JRef:1XIQ93160001 T215 DrwNo: 142.22.1737.48643 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



05/22/2022

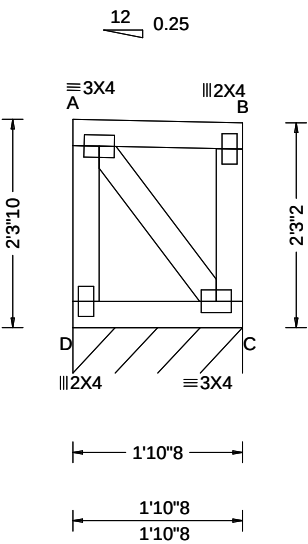
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37402 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE06	Cust: R 9316 JRef:1XIQ93160001 T219 DrwNo: 142.22.1737.50750 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.28 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.026 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

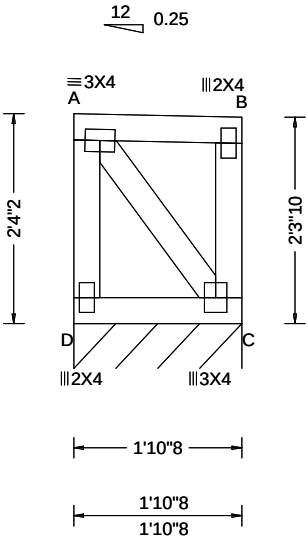


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Building 13

SEQN: 37403 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE07	Cust: R 9316 JRef:1XIQ93160001 T220 DrwNo: 142.22.1739.11650 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.32 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.027 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

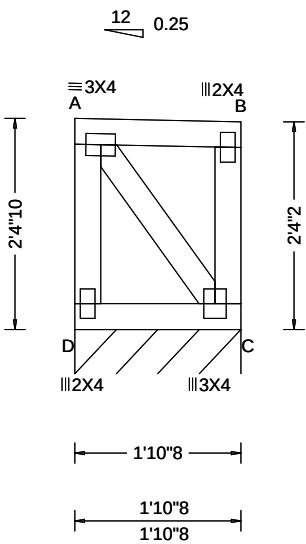


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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com ; TPI: tpinst.org ; SBCA: sbcacomponents.com ; ICC: iccsafe.org ; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 13

SEQN: 37404 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE08	Cust: R 9316 JRef:1XIQ93160001 T221 DrwNo: 142.22.1739.14110 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



05/22/2022

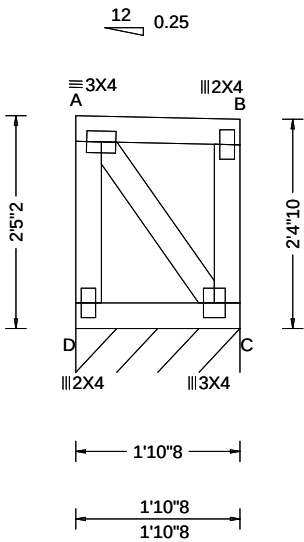
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37405 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE09	Cust: R 9316 JRef:1XIQ93160001 T222 DrwNo: 142.22.1739.17153 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.41 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.029 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /5 /22 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

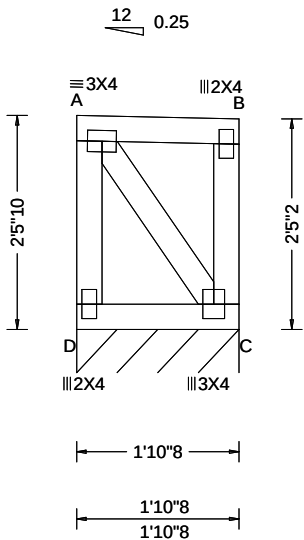
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North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37406 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE10	Cust: R 9316 JRef:1XIQ93160001 T223 DrwNo: 142.22.1739.19383 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.45 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.031 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



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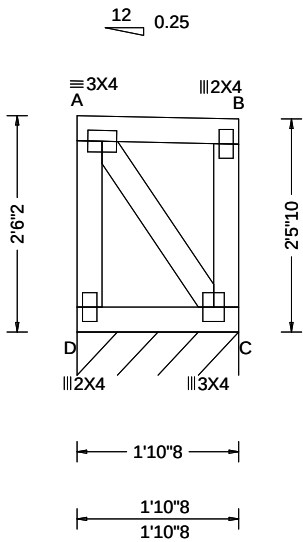
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Glenview, IL 60025

Building 13

SEQN: 37407 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE11	Cust: R 9316 JRef:1XIQ93160001 T224 DrwNo: 142.22.1739.21473 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.49 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.032 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



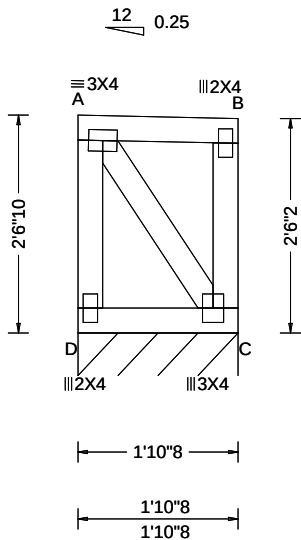
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Building 13

SEQN: 37408 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE12	Cust: R 9316 JRef:1XIQ93160001 T225 DrwNo: 142.22.1739.24007 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

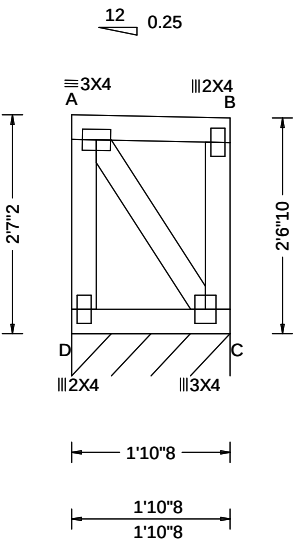


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Building 13

SEQN: 37409 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE13	Cust: R 9316 JRef:1XIQ93160001 T226 DrwNo: 142.22.1739.26023 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

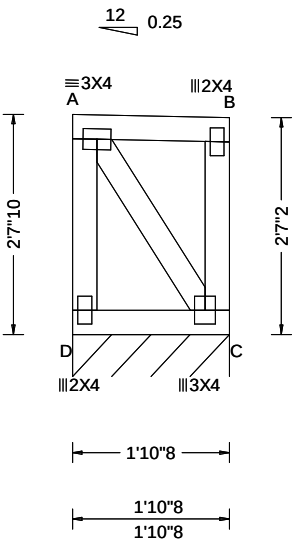


05/22/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com ; TPI: tpinst.org ; SBCA: sbccomponents.com ; ICC: iccsafe.org ; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 13

SEQN: 37410 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE14	Cust: R 9316 JRef:1XIQ93160001 T227 DrwNo: 142.22.1739.28127 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.036 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



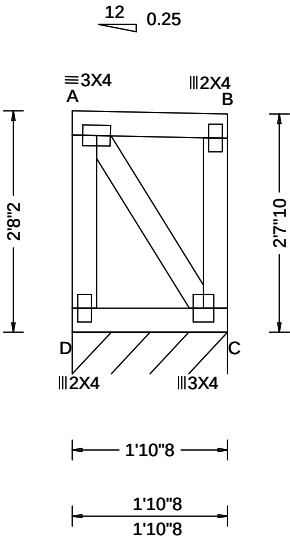
05/22/2022

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Building 13

SEQN: 37411 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE15	Cust: R 9316 JRef:1XIQ93160001 T228 DrwNo: 142.22.1739.30243 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.037 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

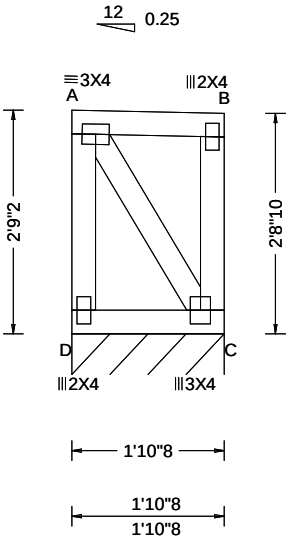


05/22/2022

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Building 13

SEQN: 37412 FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE16	Cust: R 9316 JRef:1XIQ93160001 T251 DrwNo: 142.22.1739.32407 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



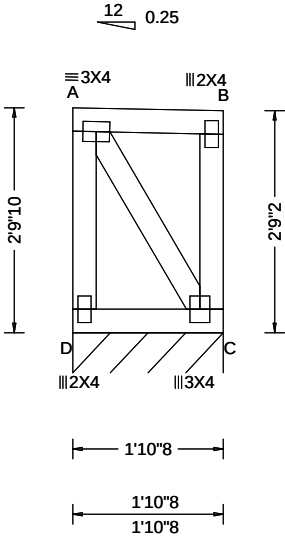
05/22/2022

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Building 13

SEQN: 37413 FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE17	Cust: R 9316 JRef:1XIQ93160001 T252 DrwNo: 142.22.1739.34360 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/26
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

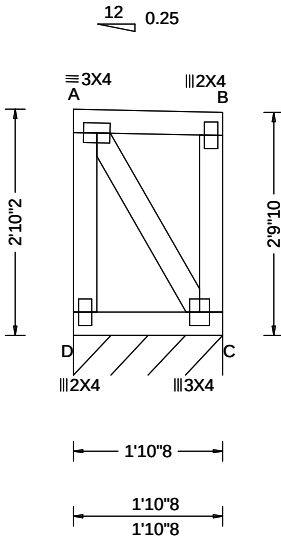


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Building 13

SEQN: 37414 FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE18	Cust: R 9316 JRef:1XIQ93160001 T253 DrwNo: 142.22.1739.36450 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.82 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/26
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



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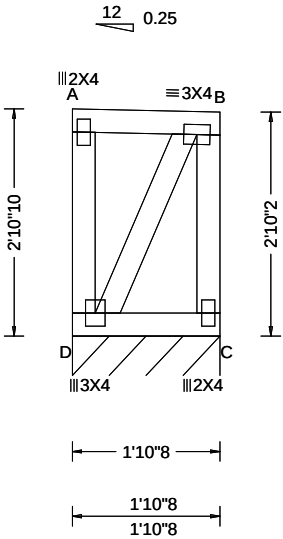
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Glenview, IL 60025

Building 13

SEQN: 37415 FROM:	MONO Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE19	Cust: R 9316 JRef:1XIQ93160001 T254 DrwNo: 142.22.1739.38677 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.043 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/27
				Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



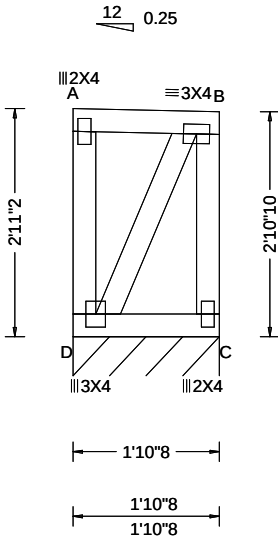
05/22/2022

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Building 13

SEQN: 37416 FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE20	Cust: R 9316 JRef:1XIQ93160001 T255 DrwNo: 142.22.1739.41033 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.044 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/28
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



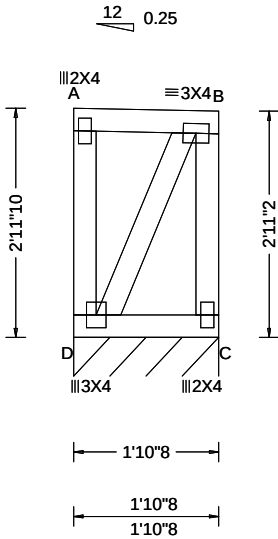
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37417 FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE21	Cust: R 9316 JRef:1XIQ93160001 T256 DrwNo: 142.22.1739.42963 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF	
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity	Loc	R+ / R- / Rh / Rw / U / RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4	Ce: 1.0		VERT(LL): 0.000 A 999 360			C*	130 /- /- /61 /6 /28
BCLL: 15.00	Enclosure: Closed	Lu: -	Cs: 1.00		VERT(CL): 0.000 A 999 240				
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15			HORZ(LL): -0.001 A - -				
Des Ld: 65.00	EXP: B Kzt: NA				HORZ(TL): 0.001 A - -				
NCBCLL: 0.00	Mean Height: 22.62 ft	Building Code:			Creep Factor: 2.0				
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018			Max TC CSI: 0.053				
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014			Max BC CSI: 0.046				
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes			Max Web CSI: 0.046				
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)							
	Loc. from endwall: Any	Plate Type(s):							
	GCpi: 0.18	WAVE							
	Wind Duration: 1.60								

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



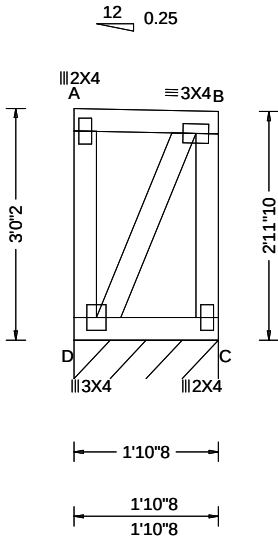
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Building 13

SEQN: 37418 FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE22	Cust: R 9316 JRef:1XIQ93160001 T257 DrwNo: 142.22.1739.45187 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.000 B 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.047 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/29
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



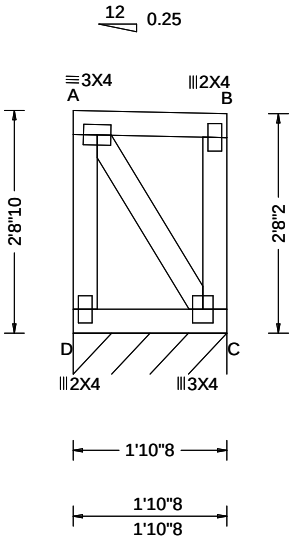
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Building 13

SEQN: 37419 FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE23	Cust: R 9316 JRef:1XIQ93160001 T231 DrwNo: 142.22.1739.47293 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.038 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

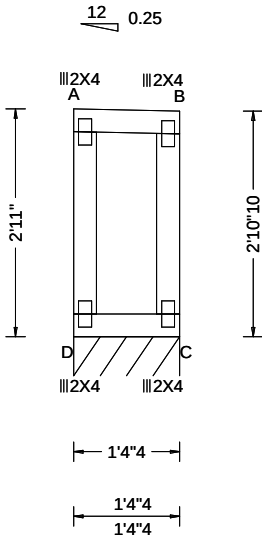


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Building 13

SEQN: 37462 FROM: JRQ	MONO Ply: 1 Qty: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE24	Cust: R 9316 JRef:1XIQ93160001 T16 DrwNo: 142.22.1739.49803 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity			Non-Gravity			
TCDL: 10.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): -0.000 A 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.000 A 999 240		D* 80 /- /- /41 /6 /38						
BCDL: 10.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.075 A - -		Wind reactions based on MWFRS						
Des Ld: 40.00		EXP: B Kzt: NA				HORZ(TL): 0.086 A - -		D Brg Wid = 16.2 Min Req = -						
NCBCLL: 0.00		Mean Height: 22.57 ft		Building Code:		Creep Factor: 2.0		Bearing D is a rigid surface.						
Soffit: 2.00		TCDL: 5.0 psf		IBC 2018		Max TC CSI: 0.051		Members not listed have forces less than 375#						
Load Duration: 1.15		BCDL: 3.0 psf		TPI Std: 2014		Max BC CSI: 0.055								
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		Rep Fac: Yes		Max Web CSI: 0.080								
		C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)										
		Loc. from endwall: Any		Plate Type(s):										
		GCpi: 0.18		WAVE		VIEW Ver: 21.02.00.1005.17								
		Wind Duration: 1.60												

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

Fasten rated sheathing to one face of this frame.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

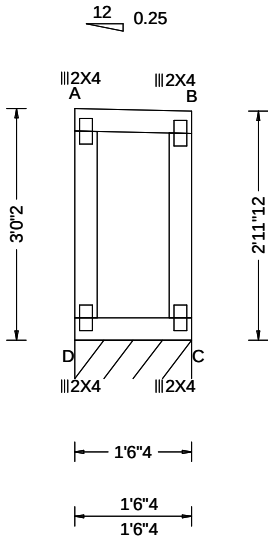


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Building 13

SEQN: 37421 FROM: JRQ	MONO Ply: 1 Qty: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE26	Cust: R 9316 JRef:1XIQ93160001 T17 DrwNo: 142.22.1739.51830 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00		Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity			
TCDL: 10.00		Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): -0.000 A 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 A 999 240	C*	80	/-	/-	/41	/6	/35
BCDL: 10.00		Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.084 A - -	Wind reactions based on MWFRS						
Des Ld: 40.00		EXP: B Kzt: NA		HORZ(TL): 0.095 A - -	C Brg Wid = 18.3 Min Req = -						
NCBCLL: 0.00		Mean Height: 22.66 ft	Building Code:	Creep Factor: 2.0	Bearing D is a rigid surface.						
Soffit: 2.00		TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.054	Members not listed have forces less than 375#						
Load Duration: 1.15		BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.059							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.085							
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
		Loc. from endwall: Any	Plate Type(s):								
		GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
		Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Bracing

Fasten rated sheathing to one face of this frame.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

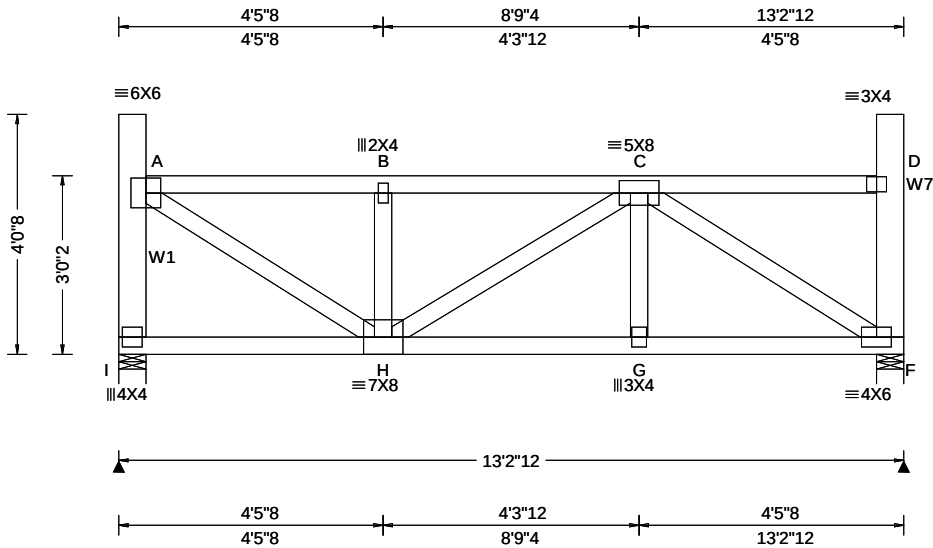


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Building 13

SEQN: 37442 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T09	Cust: R 9316 JRef:1XIQ93160001 T6 DrwNo: 142.22.1739.53913 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.033 B 999 360 VERT(CL): 0.061 B 999 240 HORZ(LL): 0.011 F - - HORZ(TL): 0.021 F - - Creep Factor: 2.0 Max TC CSI: 0.278 Max BC CSI: 0.833 Max Web CSI: 0.662 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL I 1220 -/- /- /175 -/ F 1100 -/- /- /149 -/ Wind reactions based on MWFRS I Brg Wid = 5.5 Min Req = 1.9 (Truss) F Brg Wid = 5.5 Min Req = 1.7 (Truss) Bearings I & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 208 -1467 B - C 208 -1462

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 30 plf at 0.00 to 30 plf at 13.23
BC: 204 lb Conc. Load at 1.17, 3.17, 5.17,11.17
BC: 124 lb Conc. Load at 7.17, 9.17

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



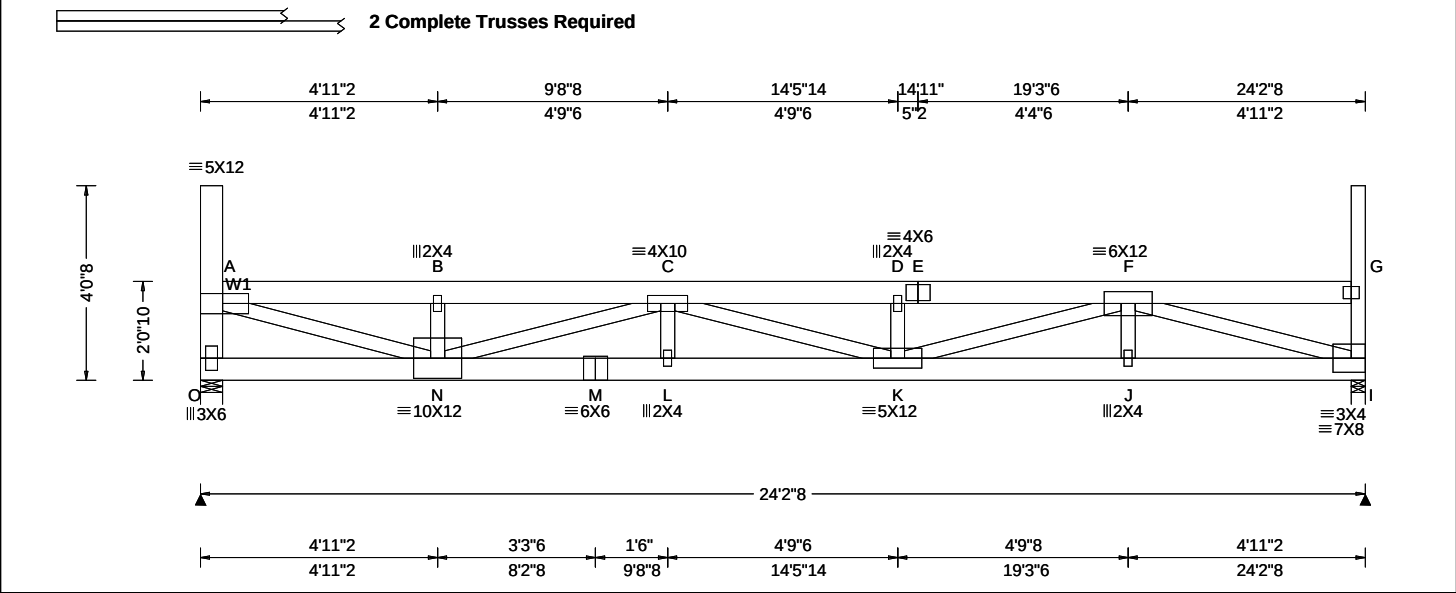
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Glenview, IL 60025

Building 13

SEQN: 37480 FROM:	FLAT Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T16	Cust: R 9316 JRef:1XIQ93160001 T3 DrwNo: 142.22.1739.56427 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.246 D 999 360 VERT(CL): 0.457 D 635 240 HORZ(LL): 0.037 I - - HORZ(TL): 0.069 I - - Creep Factor: 2.0 Max TC CSI: 0.211 Max BC CSI: 0.611 Max Web CSI: 0.855 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL O 2244 - / - / - / 388 - / - I 2375 - / - / - / 403 - / - Non-Gravity Wind reactions based on MWFRS O Brg Wid = 5.5 Min Req = 1.8 (Truss) I Brg Wid = 3.5 Min Req = 1.9 (Truss) Bearings O & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 517 - 2898 D - E 782 - 4413 B - C 516 - 2891 E - F 782 - 4413 C - D 782 - 4413

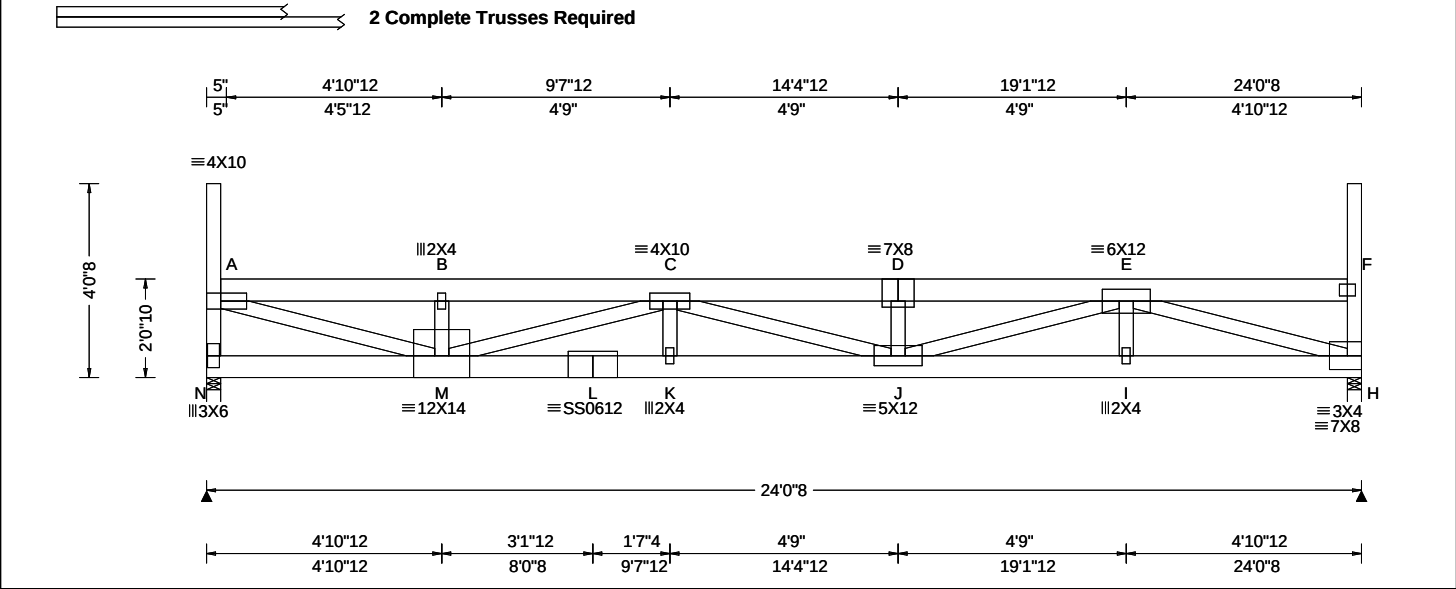
Lumber Top chord: 2x6 SPF 1650f-1.5E; Bot chord: 2x6 SPF 1650f-1.5E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Wind Wind loads and reactions based on MWFRS. End verticals exposed to wind pressure. Deflection meets L/360.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. N - M 4323 - 769 K - J 3014 - 532 M - L 4323 - 769 J - I 3014 - 532 L - K 4323 - 769
Nailnote Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @11.75" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.	Deflection Max JT VERT DEFL: LL: 0.25" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. O - A 173 - 1008 K - F 1474 - 264 A - N 2866 - 513 F - I 552 - 3126 N - C 267 - 1510
Special Loads ----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 70 plf at 0.46 to 70 plf at 23.92 BC: From 60 plf at 0.00 to 60 plf at 24.21 BC: 110 lb Conc. Load at 2.06, 4.06, 6.06, 8.06, 10.06, 18.06 BC: 173 lb Conc. Load at 12.06, 14.06, 16.06, 20.06, 22.06	Additional Notes Truss must be installed as shown with top chord up.	

Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 23.46 1.99 34.38 4.14 23.92 0.00 23.46 1.99 34.38 4.14 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	
Purlins The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.	05/22/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	
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Building 13

SEQN: 37477 FROM:	FLAT Qty: 2	Ply: 2 Qty: 2	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T32	Cust: R 9316 JRef:1XIQ93160001 T7 DrwNo: 142.22.1739.58860 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.245 K 999 360 VERT(CL): 0.456 K 632 240 HORZ(LL): 0.037 H - - HORZ(TL): 0.069 H - - Creep Factor: 2.0 Max TC CSI: 0.213 Max BC CSI: 0.626 Max Web CSI: 0.829 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 2407 /- /- /- /411 /- H 2327 /- /- /- /396 /- Wind reactions based on MWFRS N Brg Wid = 3.5 Min Req = 1.9 (Truss) H Brg Wid = 3.5 Min Req = 1.8 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 535 -3041 C - D 776 -4392 B - C 534 -3033 D - E 776 -4392

Lumber Top chord: 2x6 SPF 1650f-1.5E; Bot chord: 2x6 SPF 1650f-1.5E; Webs: 2x4 SPF #1/#2;	Wind Wind loads and reactions based on MWFRS. End verticals exposed to wind pressure. Deflection meets L/360.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 4445 -783 J - I 2937 -520 L - K 4445 -783 I - H 2937 -520 K - J 4445 -783
Nailnote Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @11.25" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.	Deflection Max JT VERT DEFL: LL: 0.25" DL: 0.21". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - A 182 -1070 J - E 1536 -271 A - M 3062 -540 E - H 540 -3047 M - C 263 -1490
Special Loads ----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 70 plf at 0.29 to 70 plf at 23.75 BC: From 60 plf at 0.00 to 60 plf at 24.04 BC: 173 lb Conc. Load at 1.90, 3.90, 7.90, 9.90 11.90,13.90,21.90 BC: 110 lb Conc. Load at 5.90,15.90,17.90,19.90	Additional Notes Truss must be installed as shown with top chord up.	

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.29	0.00	23.46	1.99	34.38 4.14
	23.75	0.00	23.46	1.99	34.38 4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

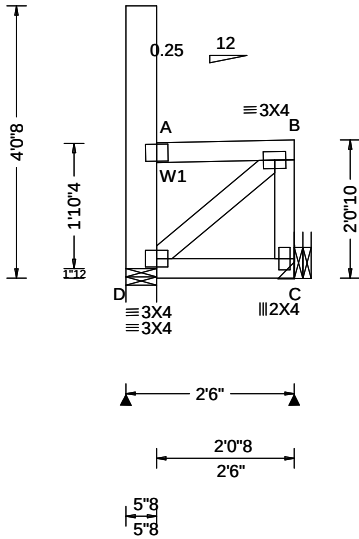
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.



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Building 13

SEQN: 37428 FROM:	MONO Ply: 1 Qty: 17	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02A	Cust: R 9316 JRef:1XIQ93160001 T10 DrwNo: 142.22.1740.00900 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	80	/-	/-	/81	/76	/62
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	110	/-	/-	/120	/56	/-
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Support)					
NCBCLL: 0.00	Mean Height: 21.70 ft	Building Code:	Creep Factor: 2.0	C	Brg Wid = - Min Req = -					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.090	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.027	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.106							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

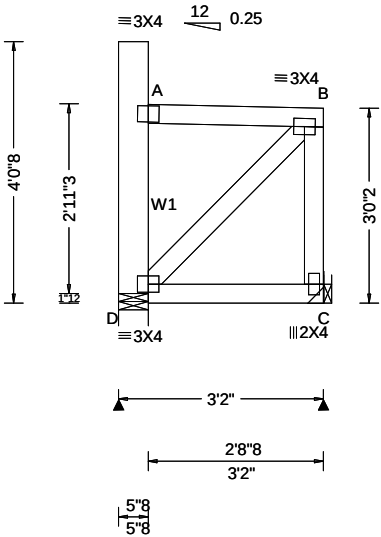


05/22/2022

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Building 13

SEQN: 37431 FROM:	MONO Ply: 1 Qty: 4	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48A	Cust: R 9316 JRef:1XIQ93160001 T13 DrwNo: 142.22.1740.02947 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 10.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D 93	/-	/-	/69	/43	/34	
BCLL: 0.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C 124	/-	/-	/98	/33	/-	
BCDL: 10.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 40.00	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D Brg Wid = 5.5 Min Req = 1.5 (Support)						
NCBCLL: 0.00	Mean Height: 22.71 ft	Building Code:	Creep Factor: 2.0	C Brg Wid = - Min Req = -						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.119	Bearing D is a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.044	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.028							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCp: 0.18									
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



05/22/2022

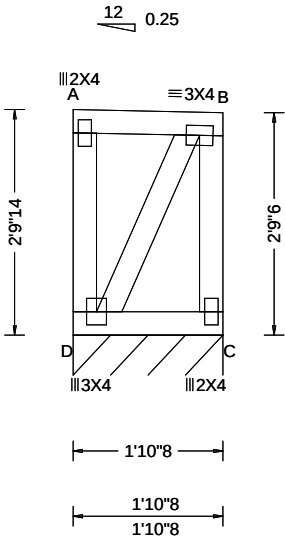
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 13

SEQN: 37468 FROM: JRQ	MONO Ply: 1 Qty: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE25	Cust: R 9316 JRef:1XIQ93160001 T12 DrwNo: 142.22.1740.05523 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.000 B 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.017 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	80	/-	/-	/41	/6	/27
				Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

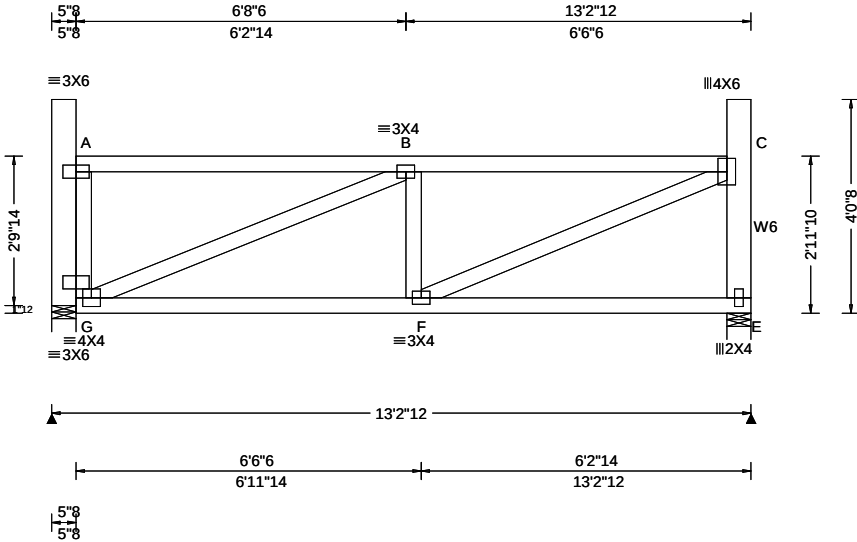


05/22/2022

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Building 13

SEQN: 37471 FROM: JRQ	MONO Ply: 1 Qty: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08A	Cust: R 9316 JRef:1XIQ93160001 T14 DrwNo: 142.22.1740.07960 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.020 B 999 360 VERT(CL): 0.041 B 999 240 HORZ(LL): 0.004 E - - HORZ(TL): 0.008 E - - Creep Factor: 2.0 Max TC CSI: 0.616 Max BC CSI: 0.357 Max Web CSI: 0.623 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 506 /- /- /275 /61 /116 E 488 /- /- /270 /56 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 98 -731

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W6 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11786.33" if used)

Additional Notes
WARNING! Reaction exceeds allowable
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.



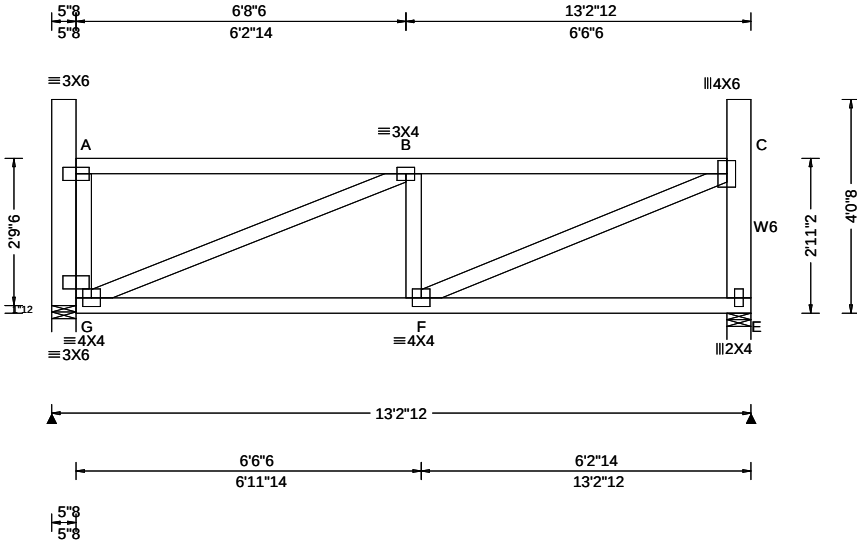
05/22/2022

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Building 13

SEQN: 37474 FROM: JRQ	MONO Ply: 1 Qty: 1	Job Number: JB-220698 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T07A	Cust: R 9316 JRef:1XIQ93160001 T9 DrwNo: 142.22.1740.27283 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.021 B 999 360 VERT(CL): 0.042 B 999 240 HORZ(LL): 0.004 E - - HORZ(TL): 0.008 E - - Creep Factor: 2.0 Max TC CSI: 0.616 Max BC CSI: 0.359 Max Web CSI: 0.629 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 506 /- /- /276 /61 /117 E 488 /- /- /271 /56 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 99 -742

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W6 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.11 6.20 1.50
12.77 0.00 20.00 1.11 6.20 1.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Blocking
Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11786.33" if used)

Additional Notes
Snow loading based on an unobstructed roof.
Complete drainage required.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.				
G - F	754 -153				
Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.	Webs	Tens. Comp.		
G - A	74 -512	F - C	742 -153		
G - B	158 -797	C - E	81 -436		



05/22/2022

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Gable Stud Reinforcement Detail
ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
	24" o.c.		SPF HF Standard	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"
		#3		4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud		4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard		4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"
		#1		4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2		4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		#3		4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
16" o.c.		DFL	Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
			#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 2"	7' 10"	8' 4"	10' 6"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
12" o.c.		SPF	#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:															
Group A:															
Spruce-Pine-Fir							Hem-Fir								
#1 / #2	Standard			#2	Stud			#3	Standard			#3	Standard		
#3	Stud			#3	Stud			#3	Standard			#3	Standard		
Douglas Fir-Larch							Southern Pine***								
#3	Stud			#3	Stud			#3	Standard			#3	Standard		
#3	Standard			#3	Standard			#3	Standard			#3	Standard		

Group B:															
Hem-Fir							Southern Pine***								
#1 & Btr	#1			#1 & Btr	#1			#1 & Btr	#1			#1 & Btr	#1		
#1	#1			#1	#1			#1	#1			#1	#1		
#2	#2			#2	#2			#2	#2			#2	#2		
#2	#2			#2	#2			#2	#2			#2	#2		

x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group 1 values may be used with these grades.

1x4 Braces shall be SRB (Stress-Rated Board).
***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

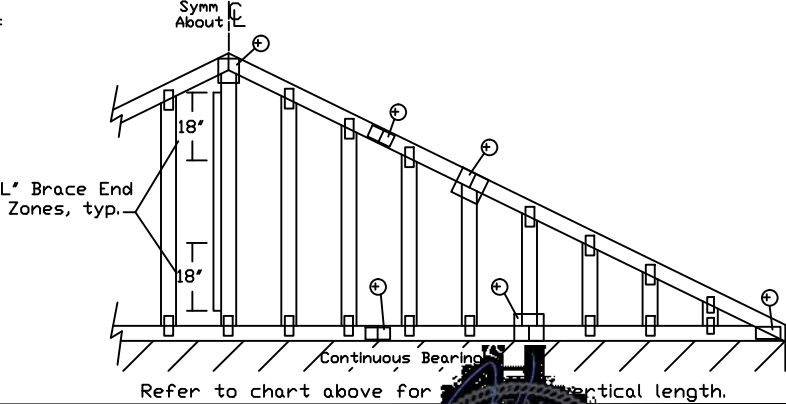
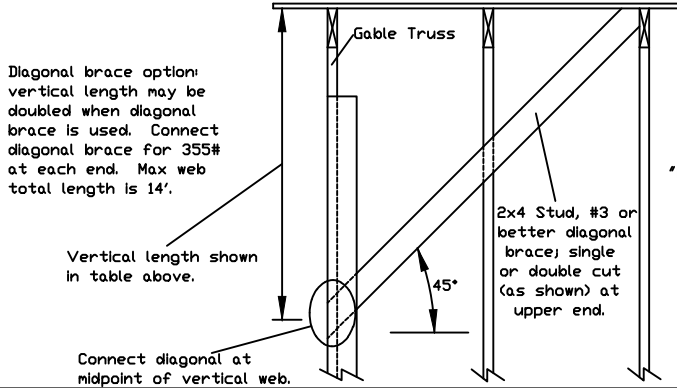
Gable Truss Detail Notes:
Wind Load deflection criterion is L/240.
Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.
* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
** For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.
'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.





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05/22/2022

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-16-GAB11530
DATE	01/26/2018
DRWG	A11530ENC160118

ASCE 7-16: 120 mph, 30' Mean Height, Closed, Exposure C Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp C, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Enclosed, Exp D, or
100 mph, 30ft. Mean Hgt, ASCE 7-16, Part. Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements

Top: Continuous roof sheathing

Bot: Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail
for lumber, plates, and other information not shown
on this detail.

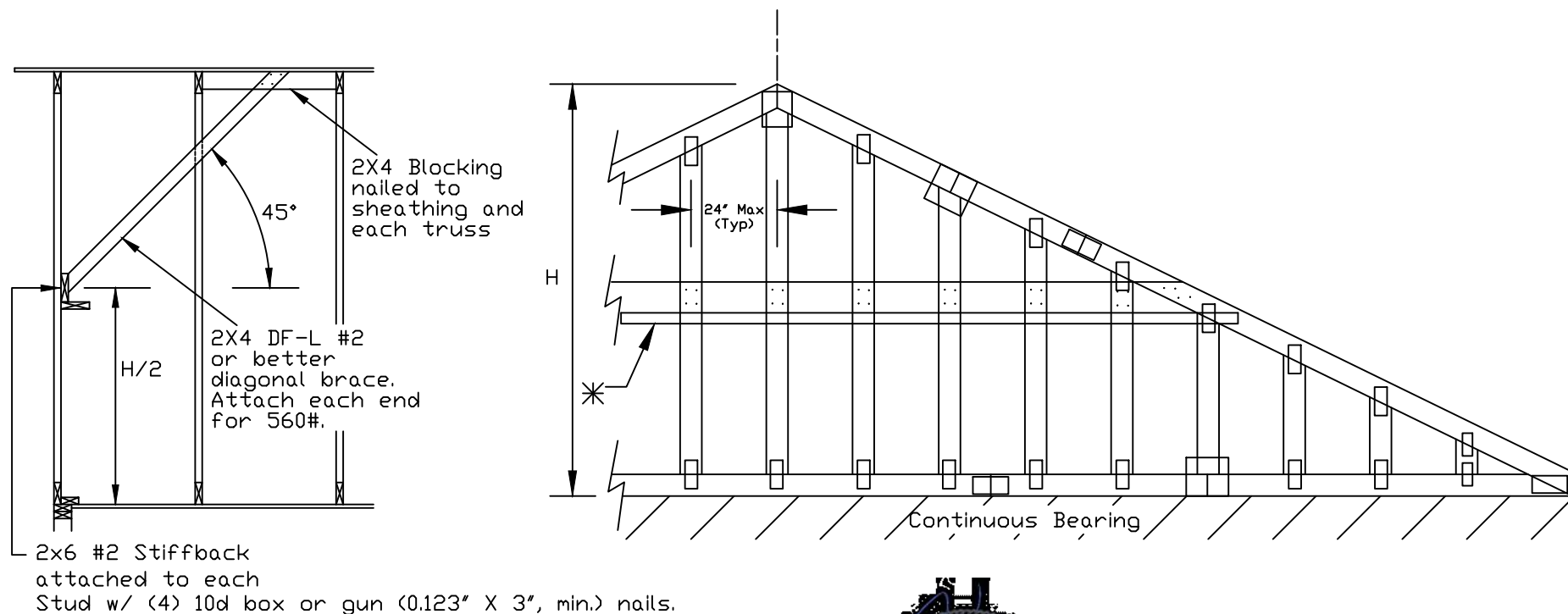
Nails: 10d box or gun (0.128"x3",min) nails.

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback
to roof diaphragm every 6'0" (see detail below or
refer to DRWG A12030ENC160118).

H Greater than 7'6" to 12'0" max:
provide a 2x6 stiffback at mid-height and brace
to roof diaphragm every 4'0" (see detail below or
refer to DRWG A12030ENC160118).

* Optional 2x L-reinforcement attached
to stiffback with 10d box or gun
(0.128" x 3", min.) nails @ 6" o.c.



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Glenview, IL 60025

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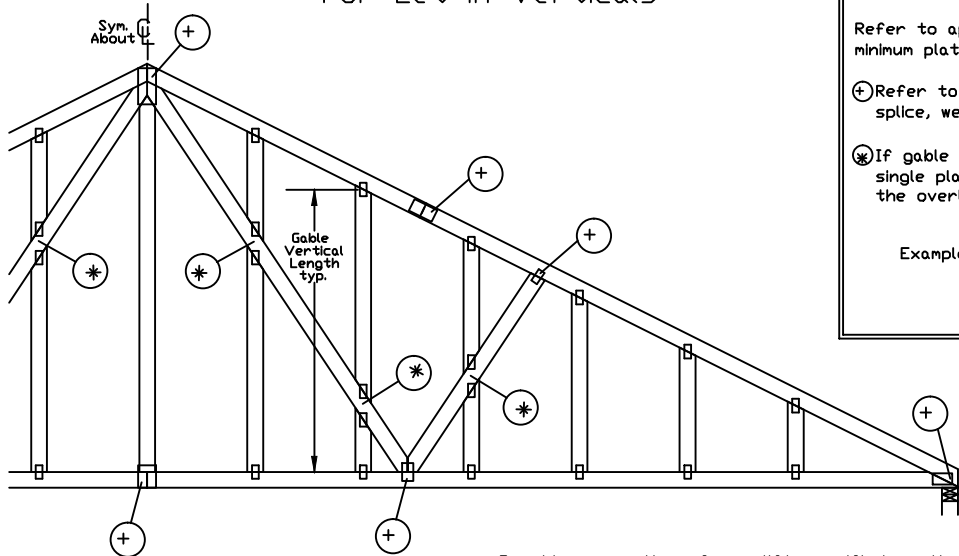


MAX. TOT. LD. 60 PSF

MAX. SPACING

REF GE WHALER
DATE 01/02/2018
DRWG GABRST160118

Gable Detail
For Let-in Verticals



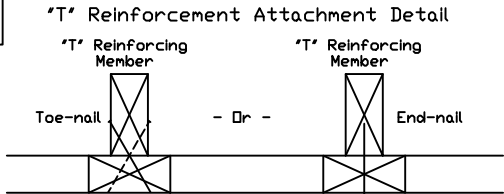
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148"x 3",min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x3",min) Toenails at 4' o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

- ASCE 7-05 Gable Detail Drawings
- A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014
- ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
- A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.

To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

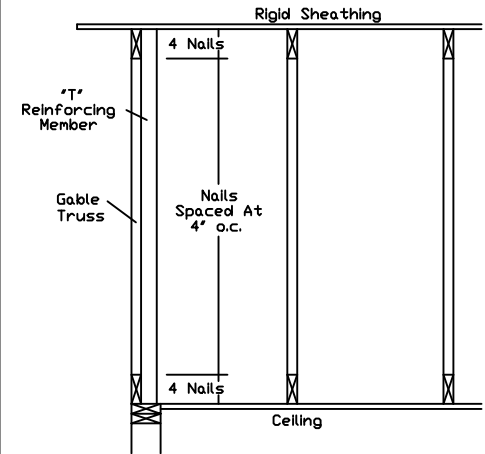
"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24'o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"





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REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118
MAX. TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX. SPACING	24.0"

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

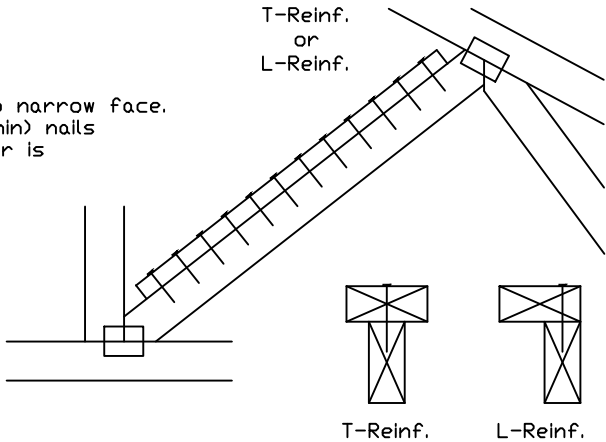
Web Member Size	Specified CLR Restraint	Alternative Reinforcement	
		T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

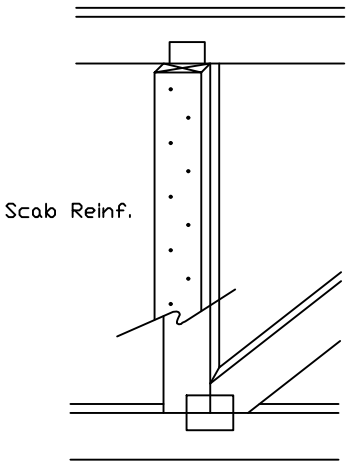
T-Reinforcement
or
L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.





AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

*****WARNING*** READ AND FOLLOW ALL NOTES ON THIS DRAWING**
*****IMPORTANT*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

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A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.



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For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



05/22/2022

REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

Alpine, an ITW company
155 Harlem Ave.
North Building, 4th Floor
Glenview, IL 60025
Phone: (800)326-4102 (314)344-9121
alpineitw.com



05/22/2022



SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

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

DATE: 05/30/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220699
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00 JRef #: 1XfQ93160002
Wind Standard: ASCE716 Wind Speed (mph): 0	Design Loading (psf): 75.00
Building Type:	

This package contains general notes pages, 24 truss drawing(s) and 4 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	142.22.1741.30350	F02	2	142.22.1741.32537	F03
3	142.22.1741.35830	F11	4	142.22.1741.40410	F12
5	142.22.1741.43010	F13	6	142.22.1741.45250	F14
7	142.22.1741.47780	F15	8	142.22.1741.54253	F16
9	142.22.1741.56593	F17	10	142.22.1741.59333	F18
11	142.22.1742.03350	F18G	12	142.22.1742.05727	F19
13	142.22.1742.08430	F19G	14	142.22.1742.11230	F21
15	142.22.1742.13633	F22	16	142.22.1742.16117	F23
17	142.22.1743.22627	F24	18	142.22.1743.24943	F25
19	142.22.1743.27100	F26	20	142.22.1743.29187	F27
21	142.22.1743.32467	F28	22	142.22.1743.35360	F28G
23	142.22.1743.37543	L11	24	142.22.1743.43040	L21
25	DEFLCAMB1014		26	STRBRIBR1014	
27	CNSY42PL0118		28	LSCSYX2A1014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

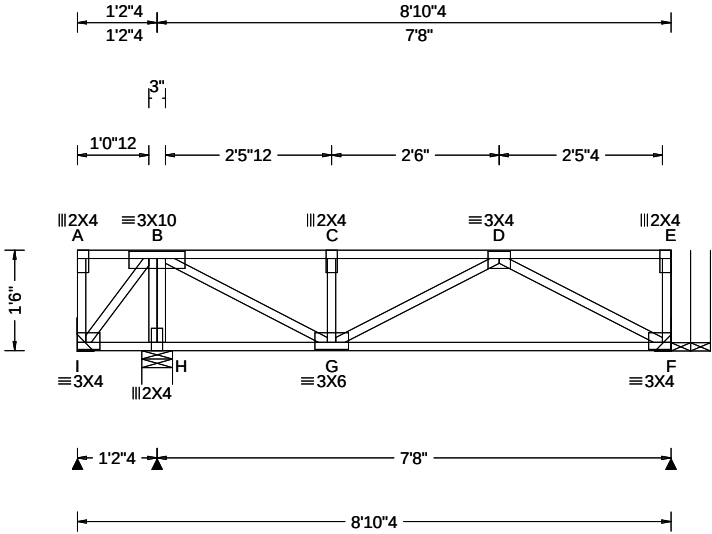
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 14

SEQN: 12692 FROM:	SY42 Qty: 54	Ply: 1 Qty: 54	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F02	Cust: R 9316 JRef:1XIQ93160002 T6 DrwNo: 142.22.1741.30350 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)										
TCLL:	40.00	Wind Std: NA	Pg: NA	Ct: NA	CAT: NA	PP Deflection in	loc	L/def	L/#	Gravity			Non-Gravity				
TCDL:	25.00	Speed: NA mph	Pf: NA		Ce: NA	VERT(LL):	0.018	C	999	480	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure: NA	Lu: NA	Cs: NA		VERT(CL):	0.034	C	999	360	I	28	/-43	/-	/-	/-	/-
BCDL:	10.00	Category: NA	Snow Duration: NA			HORZ(LL):	0.002	F	-	-	H	525	/-	/-	/-	/-	/-
Des Ld:	75.00	EXP: NA Kzt: NA				HORZ(TL):	0.004	F	-	-	F	372	/-	/-	/-	/-	/-
NCBCLL:	0.00	Mean Height: NA ft	Building Code:			Creep Factor:	2.0	I Brg Wid = - Min Req = -									
Soffit:	0.00	TCDL: NA psf	IBC 2018			Max TC CSI:	0.299	H Brg Wid = 5.5 Min Req = 1.5 (Truss)									
Load Duration:	1.00	BCDL: NA psf	TPI Std: 2014			Max BC CSI:	0.301	F Brg Wid = - Min Req = -									
Spacing:	16.0 "	MWFRS Parallel Dist: NA	Rep Fac: Yes			Max Web CSI:	0.162	Bearing H is a rigid surface.									
		C&C Dist a: NA ft	FT/RT:12(0)/10(0)					Members not listed have forces less than 375#									
		Loc. from endwall: NA	Plate Type(s):					Maximum Top Chord Forces Per Ply (lbs)									
		I: NA GCpi: NA	WAVE			VIEW Ver:	21.02.00.1005.17	Chords Tens.Comp. Chords Tens. Comp.									
		Wind Duration: NA						B - C 0 -485 C - D 0 -485									

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

G - F 473 0

Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

B - H 0 -499 D - F 0 -537
B - G 576 0



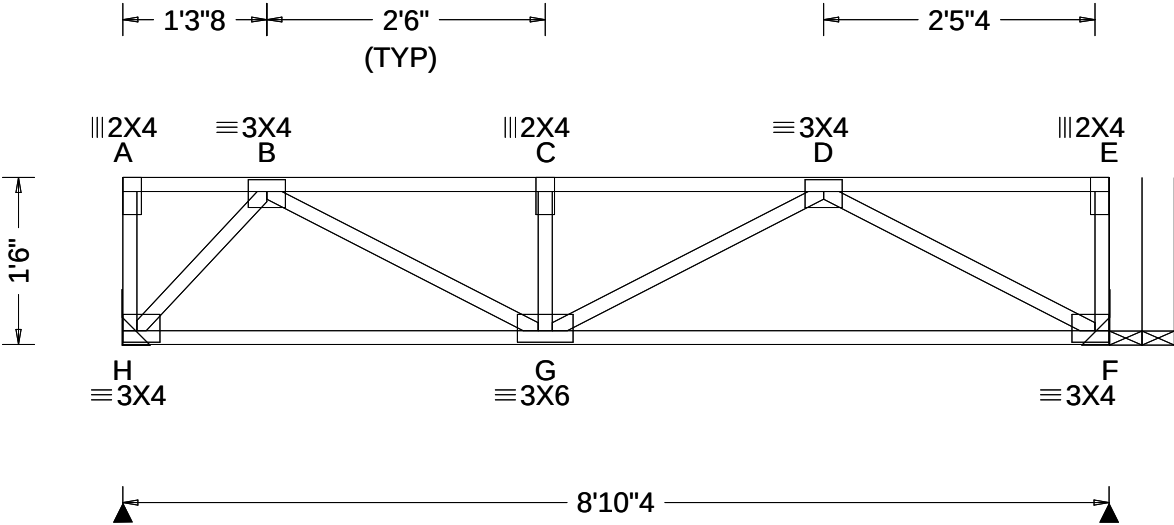
05/22/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12694 FROM:	SY42 Ply: 1 Qty: 6	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F03	Cust: R 9316 JRef:1XIQ93160002 T7 DrwNo: 142.22.1741.32537 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.024 C 999 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.046 C 999 360		H	443	/-	/-	/-	/-	/-	
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): 0.004 B - -		F	443	/-	/-	/-	/-	/-	
Des Ld: 75.00		EXP: NA Kzt: NA				HORZ(TL): 0.008 B - -		H Brg Wid = -		Min Req = -					
NCBCLL: 0.00		Mean Height: NA ft		Building Code:		Creep Factor: 2.0		F Brg Wid = -		Min Req = -					
Soffit: 0.00		TCDL: NA psf		IBC 2018		Max TC CSI: 0.298		Members not listed have forces less than 375#							
Load Duration: 1.00		BCDL: NA psf		TPI Std: 2014		Max BC CSI: 0.324		Maximum Top Chord Forces Per Ply (lbs)							
Spacing: 16.0 "		MWFRS Parallel Dist: NA		Rep Fac: Yes		Max Web CSI: 0.141		Chords		Tens.Comp.		Chords		Tens. Comp.	
		C&C Dist a: NA ft		FT/RT:12(0)/10(0)				B - C		0 -747		C - D		0 -747	
		Loc. from endwall: NA		Plate Type(s):											
		I: NA GCpi: NA		WAVE		VIEW Ver: 21.02.00.1005.17		Maximum Bot Chord Forces Per Ply (lbs)							
		Wind Duration: NA													

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

Truss must be installed as shown with top chord up.



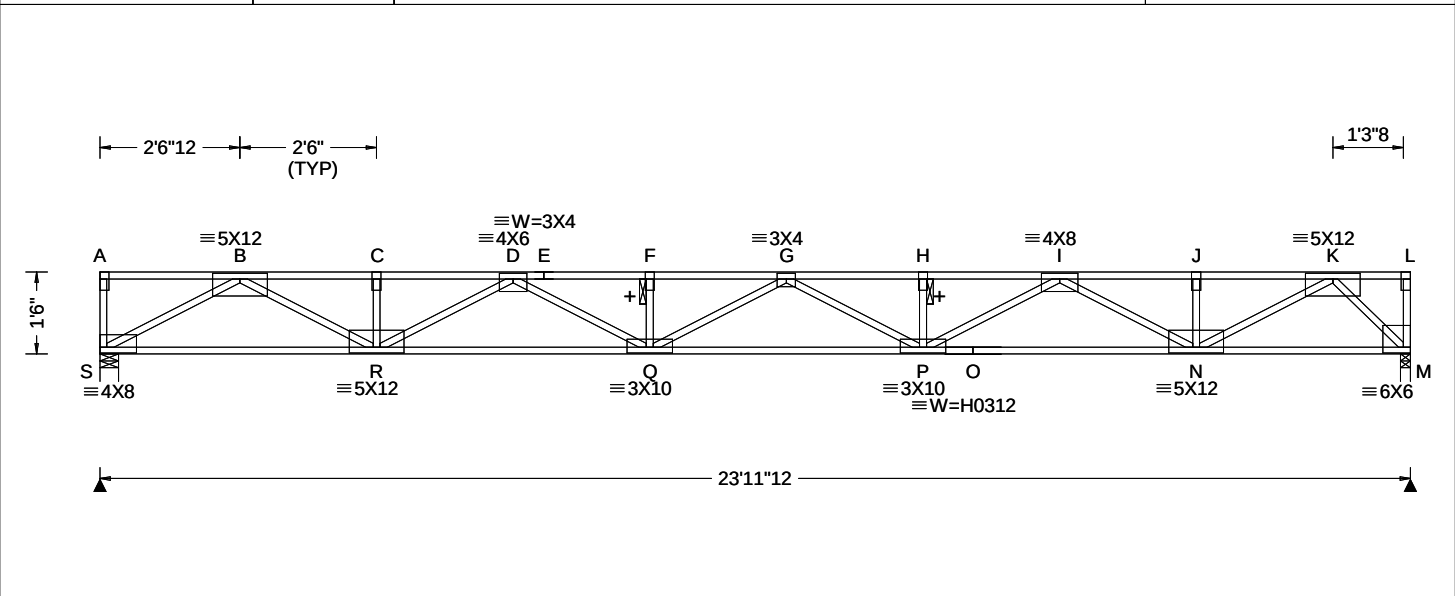
05/22/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 14

SEQN: 12696 FROM:	SY42 Qty: 32	Ply: 1 Qty: 32	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F11	Cust: R 9316 JRef:1XIQ93160002 T28 DrwNo: 142.22.1741.35830 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.414 G 695 480 VERT(CL): 0.775 G 371 360 HORZ(LL): 0.057 M - - HORZ(TL): 0.107 M - - Creep Factor: 2.0 Max TC CSI: 0.398 Max BC CSI: 0.672 Max Web CSI: 0.551 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1199 /- /- /- /- /- M 1199 /- /- /- /- /- S Brg Wid = 4.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3522 G - H 0 - 4917 C - D 0 - 3522 H - I 0 - 4917 D - E 0 - 5123 I - J 0 - 2895 E - F 0 - 5123 J - K 0 - 2895 F - G 0 - 5123

Lumber Top chord: 4x2 DF-L 2400f-2.0E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;	Plating Notes All plates are 2X4 except as noted.	Deflection Max JT VERT DEFL: LL: 0.40" DL: 0.35". See detail DEFLCMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. S - R 2010 0 P - O 4106 0 R - Q 4523 0 O - N 4106 0 Q - P 5219 0 N - M 1183 0
				Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - B 0 - 2281 P - I 925 0 B - R 1725 0 I - N 0 - 1382 R - D 0 - 1143 N - K 1954 0 D - Q 684 0 K - M 0 - 1648

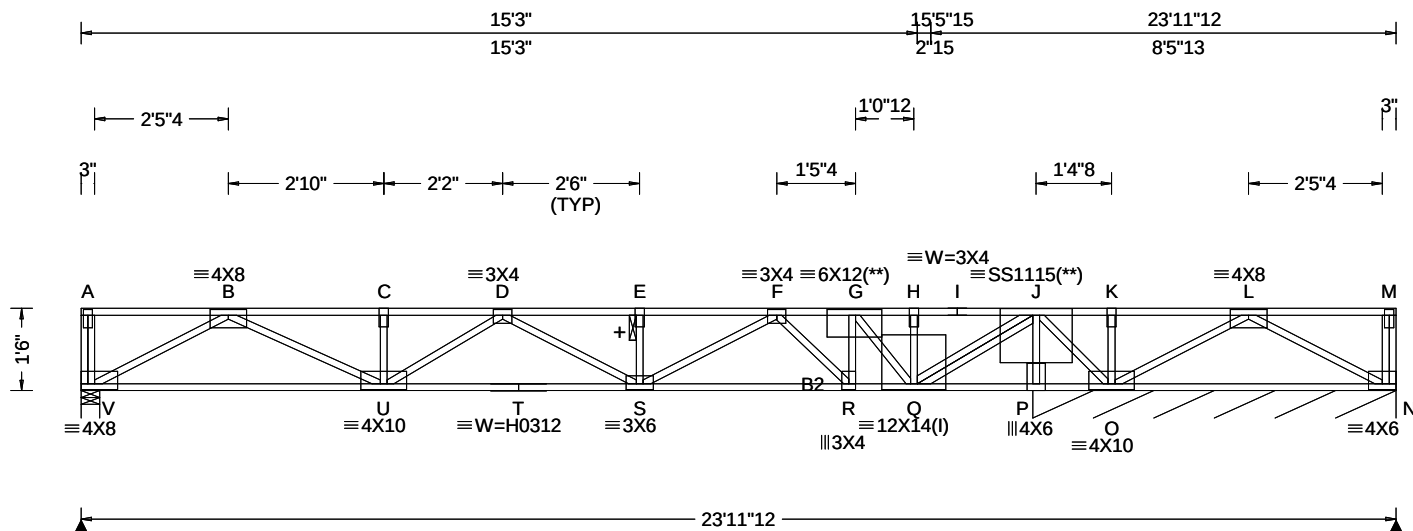


05/22/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org	 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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Building 14

SEQN: 12740	SY42	Ply: 1	Job Number: JB-220699	Cust: R 9316 JRef:1XfQ93160002 T1
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1741.40410
			Truss Label: F12	/ FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=-PLF
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.201 E 999 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.377 E 545 360	V 961 /- /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.029 B - -	N* 443 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.054 B - -	N /-304
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	V Brg Wid = 4.1 Min Req = 1.5 (Truss)
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.946	N Brg Wid = 79.5 Min Req = -
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.960	Bearings V & P are a rigid surface.
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.568	Members not listed have forces less than 375#
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: NA	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	I: NA GCpi: NA	WAVE, HS, 18SS	VIEW Ver: 21.02.00.1005.17	B - C 0 - 2615 G - H 0 - 818
	Wind Duration: NA			C - C 0 - 0 H - H 0 - 0

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
 TC: From 87 plf at 0.00 to 87 plf at 23.98
 BC: From 13 plf at 0.00 to 13 plf at 23.98
 TC: 1500 lb Conc. Load at 14.06

Plating Notes

All plates are 2X4 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Truss must be installed as shown with top chord up.



05/22/2022

▲ Maximum Reactions (lbs), or *=PLF						
Loc	Gravity			Non-Gravity		
	R+ / R-	/ Rh	/ Rw	/ U	/ RL	
V	961	/-	/-	/-	/-	/-
N*	443	/-	/-	/-	/-	/-
N	/-304					
V	Brg Wid = 4.1 Min Req = 1.5 (Truss)					
N	Brg Wid = 79.5 Min Req = -					
Bearings V & P are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.Comp.		Chords	Tens. Comp.		
B - C	0	-2615	G - H	0	-818	
C - D	0	-2615	H - I	0	-818	
D - E	0	-3202	I - J	0	-818	
E - F	0	-3202	J - K	2031	0	
F - G	0	-2426	K - L	2031	0	

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
V - U	1461	0	R - Q	2382	0
U - T	3059	0	Q - P	0	- 2607
T - S	3059	0	P - O	0	- 2607
S - R	2851	0	O - N	0	- 784

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.	Comp.	Webs	Tens. Comp.
V - B	0	-1680	G - J	0 -2558
B - U	1283	0	Q - J	4025 0
U - D	0	-526	J - P	0 -2889
S - F	401	0	J - O	816 0
F - R	0	-615	O - L	0 -1423
R - G	488	0	L - N	897 0

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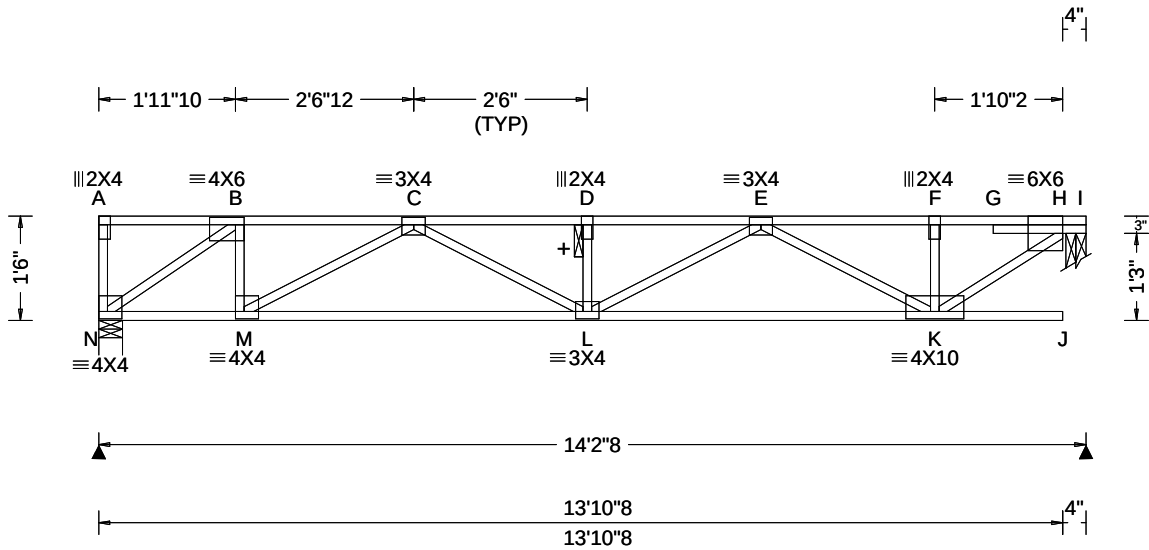
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinet.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12700 FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F13	Cust: R 9316 JRef:1XIQ93160002 T23 DrwNo: 142.22.1741.43010 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.096 D 999 480 VERT(CL): 0.179 D 942 360 HORZ(LL): 0.016 B - - HORZ(TL): 0.030 B - - Creep Factor: 2.0 Max TC CSI: 0.620 Max BC CSI: 0.537 Max Web CSI: 0.329 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 702 -/- -/- -/- -/- H 714 -/- -/- -/- -/- N Brg Wid = 4.1 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 -943 E - F 0 -943 C - D 0 -1836 F - H 0 -942 D - E 0 -1836

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
N - M	905	L - K	1574
M - L	1582		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 -1104	E - K	0 -721
B - M	416	K - H	1166
M - C	0 -734		0



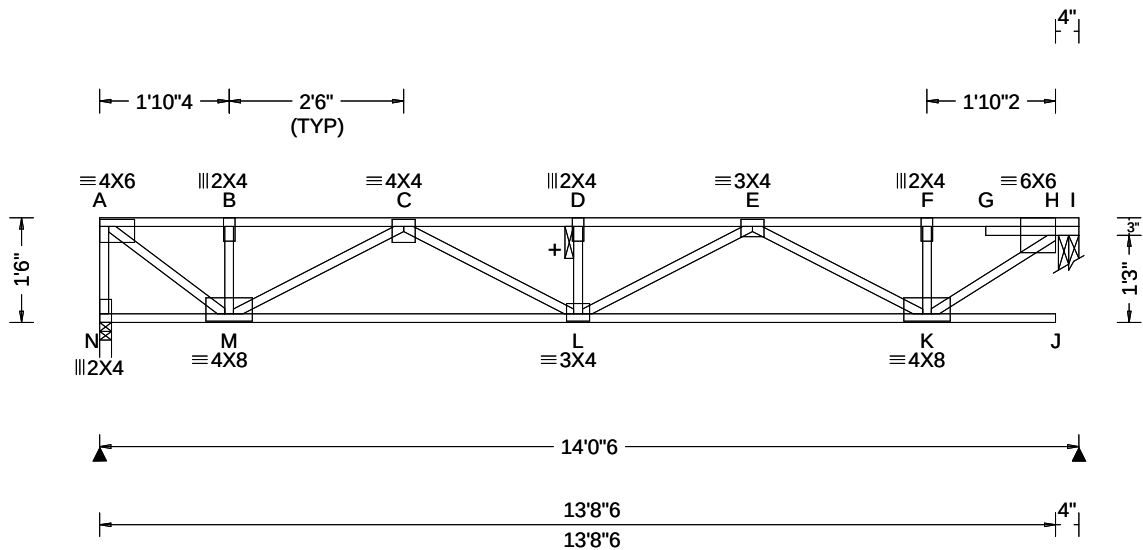
05/22/2022

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For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



Building 14

SEQN: 12702 FROM:	SY42 Ply: 1 Qty: 2	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F14	Cust: R 9316 JRef:1XIQ93160002 T15 DrwNo: 142.22.1741.45250 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.093 D 999 480 VERT(CL): 0.174 D 955 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.612 Max BC CSI: 0.524 Max Web CSI: 0.324 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 693 /- /- /- /- /- H 706 /- /- /- /- /- N Brg Wid = 2.0 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -849 D - E 0 -1791 B - C 0 -849 E - F 0 -929 C - D 0 -1791 F - H 0 -929

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1520 0	L - K	1546 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -690	E - K	0 -703
A - M	1057 0	K - H	1150 0
M - C	0 -766		



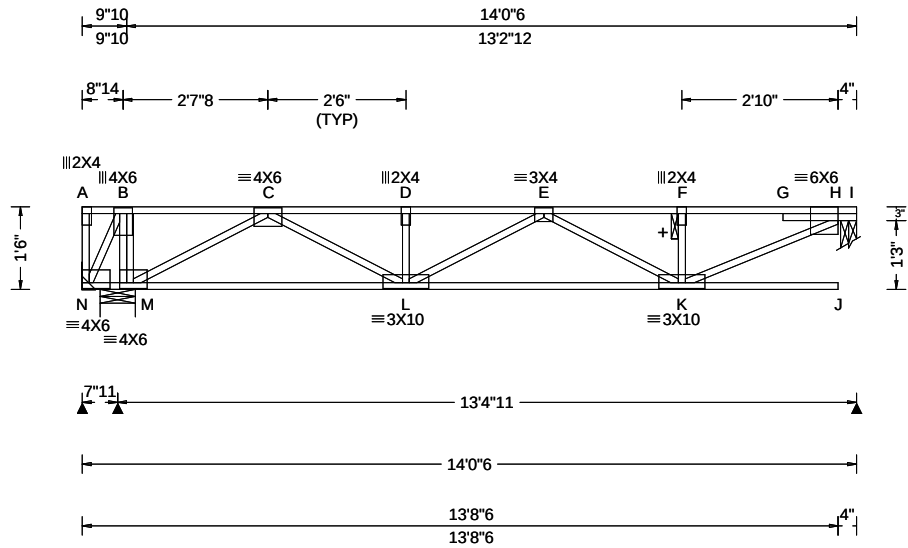
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12704 FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F15	Cust: R 9316 JRef:1XIQ93160002 T26 DrwNo: 142.22.1741.47780 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.200 J 780 480 VERT(CL): 0.320 J 487 360 HORZ(LL): 0.011 C - - HORZ(TL): 0.020 C - - Creep Factor: 2.0 Max TC CSI: 0.961 Max BC CSI: 0.588 Max Web CSI: 0.339 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-708 /- /- /- /- N 1480 /- /- /- /- /- H 618 /- /- /- /- /- N Brg Wid = - Min Req = - N 1480 Brg Wid = 7.7 Min Req = 1.5 (Truss) H 618 Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 SPF #1/#2; Bot chord: 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2;	B - C 400 0 E - F 0 -1087 C - D 0 -1207 F - H 0 -1088 D - E 0 -1207
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Deflection Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail DEFLCMB1014 for camber recommendations.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. M - L 600 0 L - K 1318 0
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Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less. Negative reaction(s) of -708# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions. Truss must be installed as shown with top chord up.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. N - B 685 0 C - L 693 0 B - M 0 -840 K - H 1201 0 M - C 0 -1141
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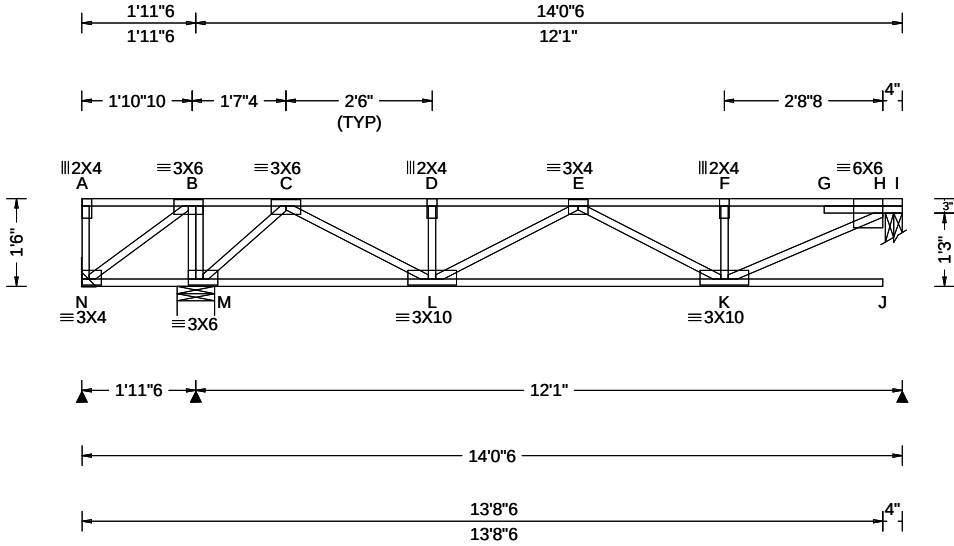
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12706 FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F16	Cust: R 9316 JRef:1XIQ93160002 T33 DrwNo: 142.22.1741.54253 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 40.00		Wind Std: NA		Pg: NA Ct: NA CAT: NA		PP Deflection in loc L/def L/#		Gravity			Non-Gravity			
TCDL: 25.00		Speed: NA mph		Pf: NA Ce: NA		VERT(LL): 0.159 J 897 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00		Enclosure: NA		Lu: NA Cs: NA		VERT(CL): 0.249 J 570 360		N	-	/-323	/-	/-	/-	/-
BCDL: 10.00		Category: NA		Snow Duration: NA		HORZ(LL): 0.007 C - -		M	1131	/-	/-	/-	/-	/-
Des Ld: 75.00		EXP: NA Kzt: NA				HORZ(TL): 0.013 C - -		I	547	/-	/-	/-	/-	/-
NCBCLL: 0.00		Mean Height: NA ft		Building Code:		Creep Factor: 2.0		N Brg Wid = - Min Req = -						
Soffit: 0.00		TCDL: NA psf		IBC 2018		Max TC CSI: 0.823		M Brg Wid = 7.7 Min Req = 1.5 (Truss)						
Load Duration: 1.00		BCDL: NA psf		TPI Std: 2014		Max BC CSI: 0.493		I Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Spacing: 16.0 "		MWFRS Parallel Dist: NA		Rep Fac: Yes		Max Web CSI: 0.283		Bearings M & H are a rigid surface.						
		C&C Dist a: NA ft		FT/RT:12(0)/10(0)				Members not listed have forces less than 375#						
		Loc. from endwall: NA		Plate Type(s):				Maximum Top Chord Forces Per Ply (lbs)						
		I: NA GCpi: NA		WAVE		VIEW Ver: 21.02.00.1005.17		Chords Tens.Comp. Chords Tens. Comp.						
		Wind Duration: NA												

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.

Negative reaction(s) of -323# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

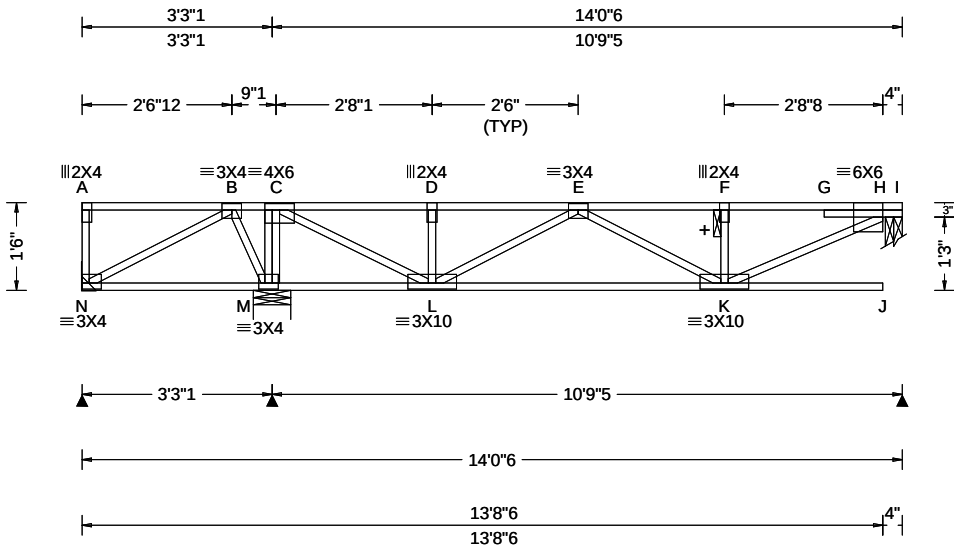


05/22/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCEA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCEA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org		 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025
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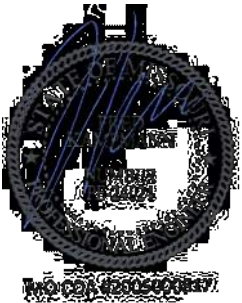
Building 14

SEQN: 12708 FROM:	SY42	Ply: 1 Qty: 2	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F17	Cust: R 9316 JRef:1XIQ93160002 T20 DrwNo: 142.22.1741.56593 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 870 480 VERT(CL): 0.233 J 550 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.749 Max BC CSI: 0.437 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 57 /-122 /- /- /- /- M 959 /- /- /- /- /- I 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) I Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 4x2 SPF #1/#2; Bot chord: 4x2 SPF #1/#2; Webs: 4x2 SPF #1/#2;	Deflection Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. L - K 818 0 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. M - C 0 -627 K - H 874 0 C - L 963 0
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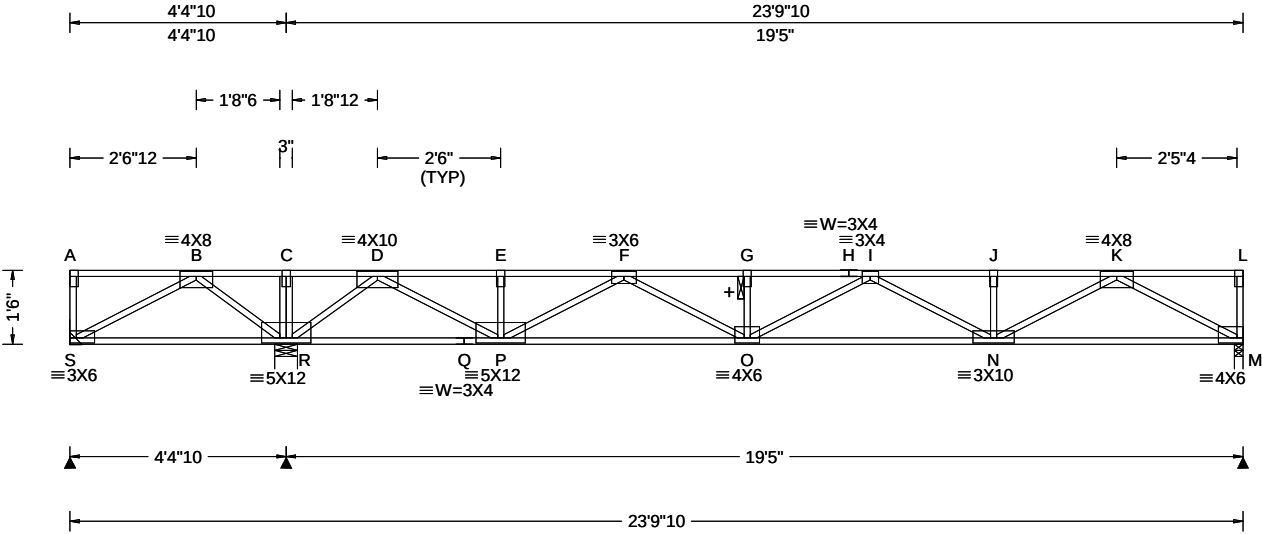


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Building 14

SEQ: 12710	SY42	Ply: 1	Job Number: JB-220699	Cust: R 9316 JRef:1XIQ93160002 T16
FROM:		Qty: 4	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1741.59333
			Truss Label: F18	/ FK 05/22/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)								
TCLL:	40.00	Wind Std:	NA	Pg:	NA	Ct:	NA	CAT:	NA	Gravity			Non-Gravity			
TCDL:	25.00	Speed:	NA mph	Pf:	NA	Ce:	NA			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure:	NA	Lu:	NA	Cs:	NA			S	-	/-458	/-	/-	/-	/-
BCDL:	10.00	Category:	NA	Snow Duration:	NA					R	1886	/-	/-	/-	/-	/-
		EXP:	NA Kzt: NA							M	844	/-	/-	/-	/-	/-
Des Ld:	75.00	Mean Height:	NA ft	Building Code:						S	Brg Wid = -		Min Req = -			
NCBCLL:	0.00	TCDL:	NA psf	IBC 2018						R	Brg Wid = 5.5		Min Req = 1.5 (Truss)			
Soffit:	0.00	BCDL:	NA psf	TPI Std:	2014					M	Brg Wid = 2.1		Min Req = 1.5 (Truss)			
Load Duration:	1.00	MWFRS Parallel Dist:	NA	Rep Fac:	Yes					Bearings R & M are a rigid surface.						
Spacing:	16.0 "	C&C Dist a:	NA ft	FT/RT:	12(0)/10(0)					Members not listed have forces less than 375#						
		Loc. from endwall:	NA	Plate Type(s):						Maximum Top Chord Forces Per Ply (lbs)						
		l: NA	GCpi: NA							Chords	Tens.	Comp.	Chords	Tens.	Comp.	
		Wind Duration:	NA	WAVE						VIEW Ver:	21.02.00.1005.17					

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes

All plates are 2X4 except as noted.

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -458# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.

B - C	1750	0	G - H	0	-2537
C - D	1750	0	H - I	0	-2537
D - E	0	-1040	I - J	0	-2220
E - F	0	-1040	J - K	0	-2220
F - G	0	-2537			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
S - R	0 -955	P - O	1987 0
R - Q	0 -427	O - N	2580 0
Q - P	0 -427	N - M	1352 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.	
S - B	1084	0	F - O	631	0
B - R	0	-1117	I - N	0	-411
R - D	0	-1648	N - K	991	0
D - P	1653	0	K - M	0	-1535
P - F	0	-1085			



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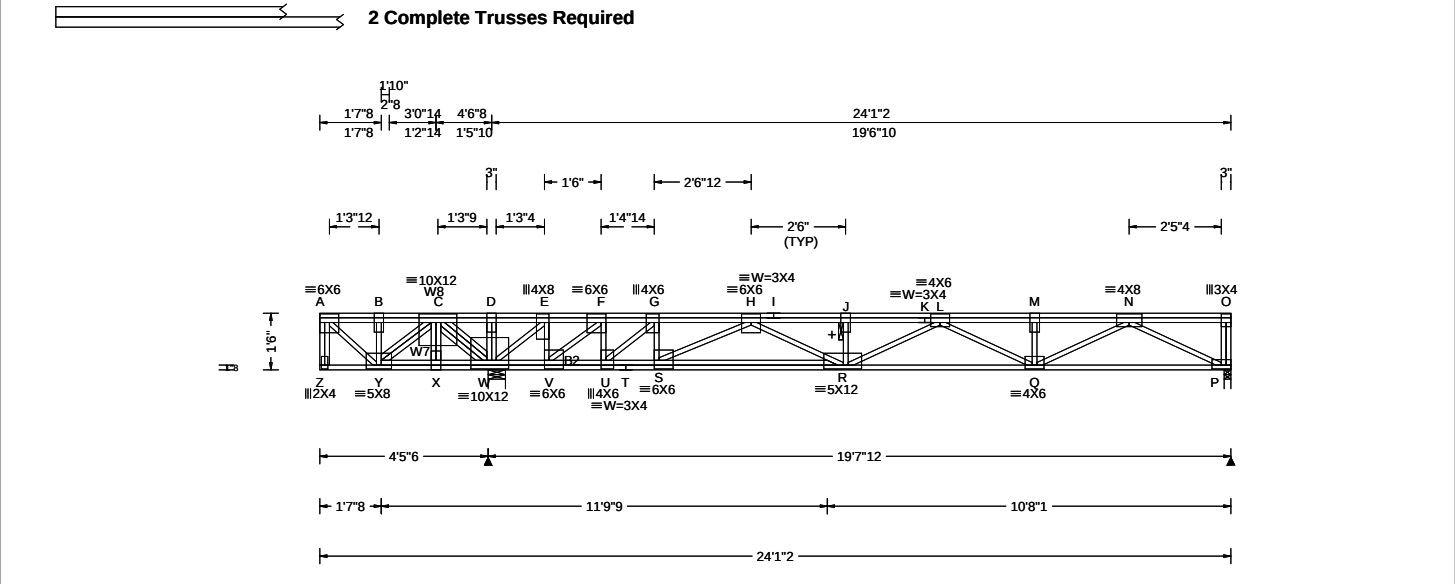
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



SEQN: 12712	SY42	Ply: 2	Job Number: JB-220699	Cust: R 9316 JRef: 1XIQ93160002 T17
FROM:		Qty: 2	Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr	DrwNo: 142.22.1742.03350
			Truss Label: F18G	/ FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.124 Z 435 480 VERT(CL): 0.263 Z 204 360 HORZ(LL): -0.027 A - - HORZ(TL): 0.058 A - - Creep Factor: 2.0 Max TC CSI: 0.885 Max BC CSI: 0.247 Max Web CSI: 0.249 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL W 8317 -/-/-/-/-/- P 962 -/-165 -/-/-/-/- W Brg Wid = 5.5 Min Req = 1.5 (Truss) P Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings W & P are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 420 0 H - I 1554 -1705 B - C 420 0 I - J 1554 -1705 C - D 4753 0 J - K 1551 -1711 D - E 4749 0 K - L 1551 -1711 E - F 4209 -367 L - M 534 -1347 F - G 3615 -827 M - N 534 -1347 G - H 3087 -1193

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2; W7, W8 4x2 DF-L 2400f-2.0E;

Special Loads
----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
TC: From 87 plf at 0.00 to 87 plf at 24.09
BC: From 13 plf at 0.00 to 13 plf at 24.09
TC: 770 lb Conc. Load at 0.15
TC: 5500 lb Conc. Load at 3.07

Plating Notes
All plates are 3X6 except as noted.

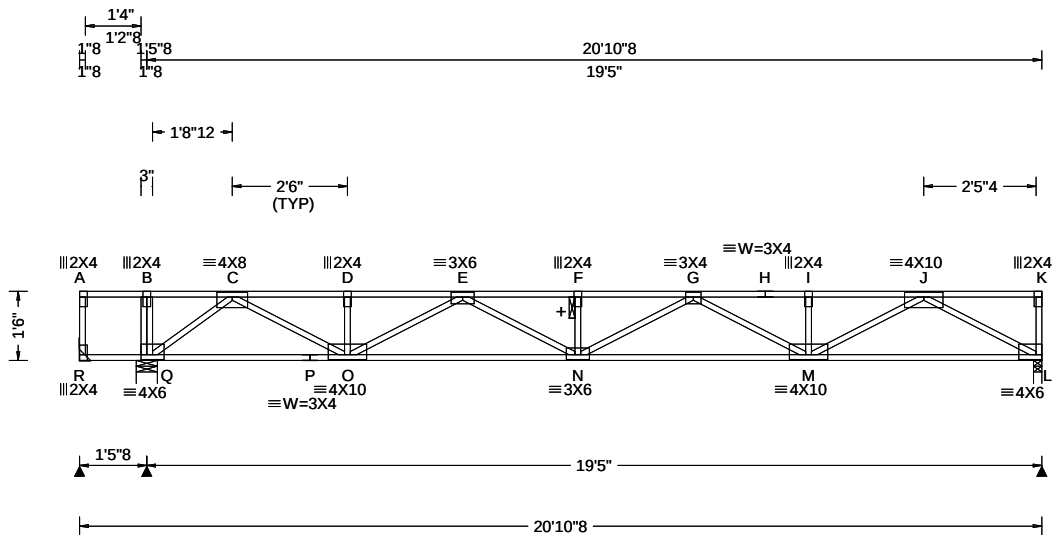
Additional Notes
See DWG CNSY42PL0118 for connection details of 2 ply trusses.
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Truss must be installed as shown with top chord up.



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Building 14

SEQN: 9762 FROM:	SY42 Qty: 36	Ply: 1 Qty: 36	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F19	Cust: R 9316 JRef:1XIQ93160002 T34 DrwNo: 142.22.1742.05727 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.246 F 943 480 VERT(CL): 0.462 F 502 360 HORZ(LL): 0.038 L - - HORZ(TL): 0.072 L - - Creep Factor: 2.0 Max TC CSI: 0.485 Max BC CSI: 0.960 Max Web CSI: 0.397 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL R 27 /-42 /- /- /- /- Q 1134 /- /- /- /- /- L 962 /- /- /- /- /- R Brg Wid = - Min Req = - Q Brg Wid = 5.5 Min Req = 1.5 (Truss) L Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings Q & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
Q - P	1089 0	N - M	3224 0
P - O	1089 0	M - L	1570 0
O - N	3055 0		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q - C	0 - 1383	G - M	0 - 654
C - O	1407 0	M - J	1233 0
O - E	0 - 839	J - L	0 - 1782
E - N	387 0		

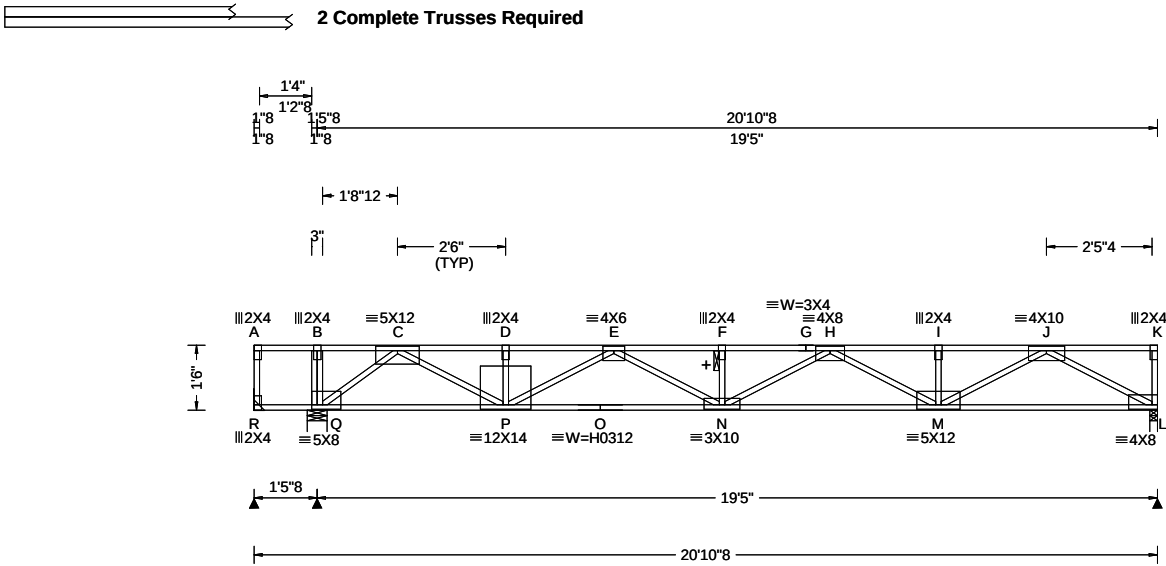


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SEQN: 9764	SY42	Ply: 2	Job Number: JB-220699	Cust: R 9316 JRef:1XIQ93160002 T8
FROM:		Qty: 6	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1742.08430
			Truss Label: F19G	/ FK 05/22/2022

[illegible]

Lumber

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
 TC: From 87 plf at 0.00 to 87 plf at 20.88
 BC: From 13 plf at 0.00 to 13 plf at 20.88
 TC: 443 lb Conc. Load at 0.94
 TC: 372 lb Conc. Load at 2.27, 3.60, 4.94, 6.27
 7.60, 8.94, 10.27, 11.60, 12.94

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



05/22/2022

▲ Maximum Reactions (lbs)						
Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	24	/-58	/-	/-	/-	/-
Q	3942	/-	/-	/-	/-	/-
L	1997	/-	/-	/-	/-	/-
R	Brg Wid = -		Min Req = -			
Q	Brg Wid = 5.5		Min Req = 1.5 (Truss)			
L	Brg Wid = 2.1		Min Req = 1.5 (Truss)			

Bearings Q & L are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
C - D	0 - 3789	G - H	0 - 5138
D - E	0 - 3789	H - I	0 - 3219
E - F	0 - 5138	I - J	0 - 3219
F - G	0 - 5138		

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
Q - P	1835	0	N - M	4478	0
P - O	4877	0	M - L	1748	0
O - N	4877	0			

Maximum Web Forces Per Ply (lbs)				
Webbs	Tens.Comp.		Webbs	Tens. Comp.
B - Q	0	- 465	F - N	0 - 473
Q - C	0	- 2340	N - H	753 0
C - P	2229	0	H - M	0 - 1437
D - P	0	- 467	M - J	1679 0
P - E	0	- 1242	J - L	0 - 1984

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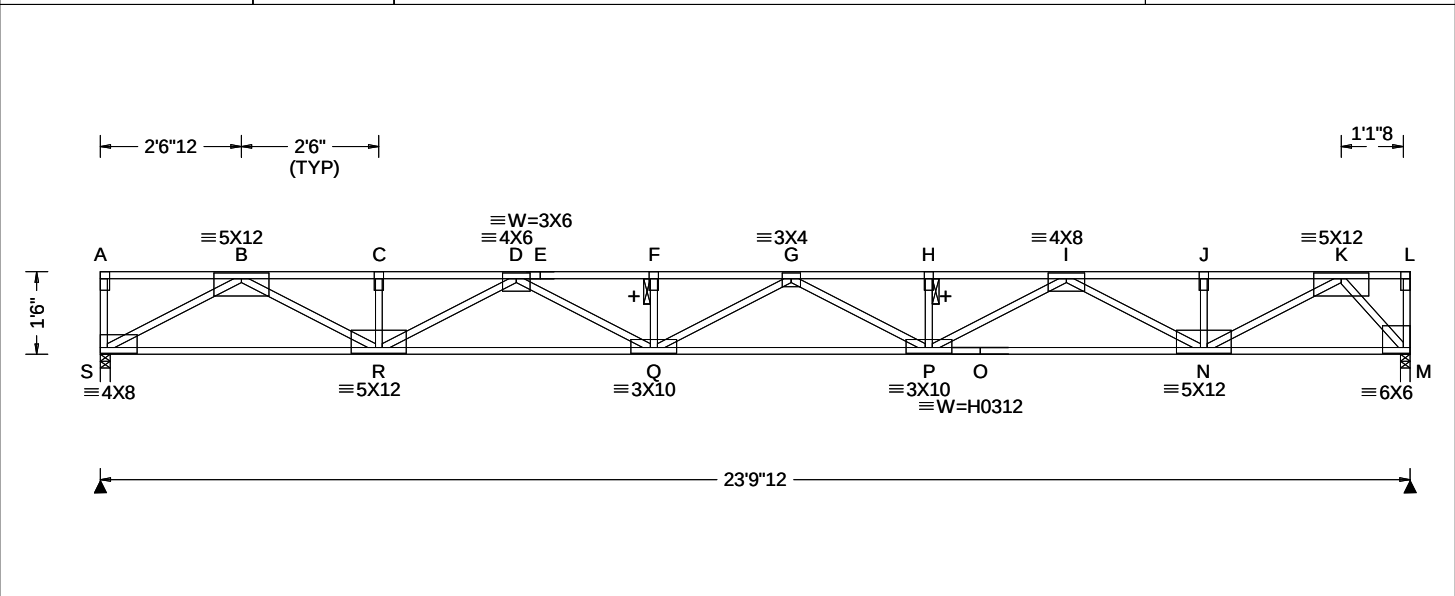
For more information see these web sites: Alpine: alpineitw.com; TPI: tpiinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12714 FROM:	SY42 Qty: 64	Ply: 1 Qty: 64	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F21	Cust: R 9316 JRef:1XIQ93160002 T19 DrwNo: 142.22.1742.11230 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.419 G 682 480 VERT(CL): 0.785 G 364 360 HORZ(LL): 0.056 M - - HORZ(TL): 0.104 M - - Creep Factor: 2.0 Max TC CSI: 0.442 Max BC CSI: 0.664 Max Web CSI: 0.556 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL S 1191 /- /- /- /- /- M 1191 /- /- /- /- /- S Brg Wid = 2.1 Min Req = 1.5 (Truss) M Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings S & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 0 - 3491 G - H 0 - 4826 C - D 0 - 3491 H - I 0 - 4826 D - E 0 - 5062 I - J 0 - 2773 E - F 0 - 5062 J - K 0 - 2773 F - G 0 - 5062

Lumber Top chord: 4x2 SPF 2100f-1.8E; Bot chord: 4x2 SPF 2100f-1.8E; Webs: 4x2 SPF #1/#2;	Plating Notes All plates are 2X4 except as noted.	Deflection Max JT VERT DEFL: LL: 0.41" DL: 0.36". See detail DEFLCAMB1014 for camber recommendations.	Additional Notes + 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations. Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. S - R 1995 0 P - O 4000 0 R - Q 4479 0 O - N 4000 0 Q - P 5145 0 N - M 1047 0	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. S - B 0 - 2264 P - I 942 0 B - R 1707 0 I - N 0 - 1401 R - D 0 - 1127 N - K 1969 0 D - Q 665 0 K - M 0 - 1557
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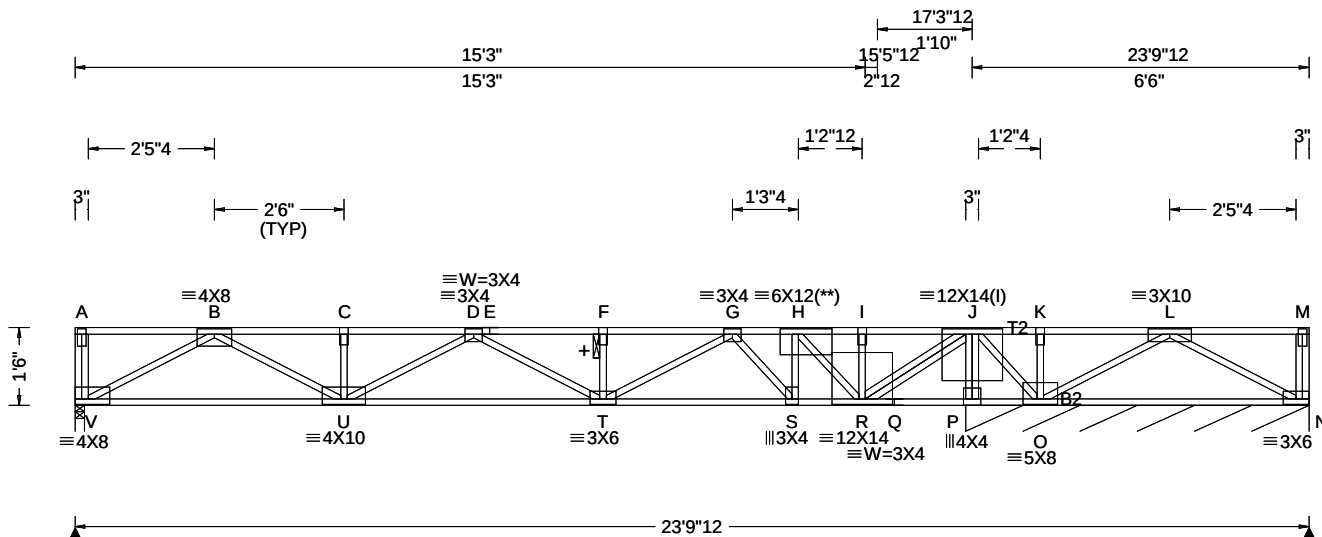


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Building 14

SEQN: 12716	SY42	Ply: 1	Job Number: JB-220699	Cust: R 9316 JRef:1XfQ93160002 T2
FROM:		Qty: 4	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1742.13633
			Truss Label: F22	/ FK 05/22/2022



Leading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.179 F 999 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.335 F 613 360	V 961 /- /- /- /- /-
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.026 B - -	N* 441 /- /- /- /- /-
Des Ld: 75.00	EXP: NA Kzt: NA		HORZ(TL): 0.049 B - -	N /-246
NCBCLL: 0.00	Mean Height: NA ft	Building Code:	Creep Factor: 2.0	V Brg Wid = 2.1 Min Req = 1.5 (Truss)
Soffit: 0.00	TCDL: NA psf	IBC 2018	Max TC CSI: 0.504	N Brg Wid = 79.5 Min Req = -
Load Duration: 1.00	BCDL: NA psf	TPI Std: 2014	Max BC CSI: 0.472	Bearings V & P are a rigid surface.
Spacing: 16.0 "	MWFRS Parallel Dist: NA	Rep Fac: No	Max Web CSI: 0.548	Members not listed have forces less than 375#
	C&C Dist a: NA ft	FT/RT:12(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: NA	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	I: NA GCpi: NA	WAVE	VIEW Ver: 21.02.00.1005.17	B - C 0 - 2565 G - H 0 - 2521
	Wind Duration: NA			

Lumber

Top chord: 4x2 SPF #1/#2; T2 4x2 SPF 2100f-1.8E;
Bot chord: 4x2 SPF 2100f-1.8E; B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)

TC:	From	87 plf at	0.00 to	87 plf at	23.81
BC:	From	13 plf at	0.00 to	13 plf at	23.81
TC:	1500 lb Conc. Load at 13.90				

Plating Notes

All plates are 2X4 except as noted.

(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.



05/22/2022

▲ Maximum Reactions (lbs), or * = PLF						
Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
V	961	/-	/-	/-		/-
N*	441	/-	/-	/-	/-	/-
N	/ -246					
V	Brg Wid = 2.1 Min Req = 1.5 (Truss)					
N	Brg Wid = 79.5 Min Req = -					
Bearings V & P are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens. Comp.		Chords	Tens. Comp.		
B - C	0	- 2565	G - H	0	- 2521	
C - D	0	- 2565	H - I	0	- 698	
D - E	0	- 3256	I - J	0	- 698	
E - F	0	- 3256	J - K	1825	0	
F - G	0	- 3256	K - L	1825	0	

Maximum Bot Chord Forces Per Ply (lbs)							
Chords		Tens.Comp.		Chords		Tens. Comp.	
V - U	1507	0		R - Q	0	- 2561	
U - T	3113	0		Q - P	0	- 2561	
T - S	2904	0		P - O	0	- 2561	
S - R	2477	0		O - N	0	- 681	

Maximum Web Forces Per Ply (lbs)				
Webbs	Tens.	Comp.	Webbs	Tens. Comp.
V - B	0	-1714	H - R	0 -2670
B - U	1208	0	R - J	3882 0
U - D	0	-625	J - P	0 -3088
T - G	402	0	J - O	1065 0
G - S	0	-598	O - L	0 -1307
S - H	486	0	L - N	779 0

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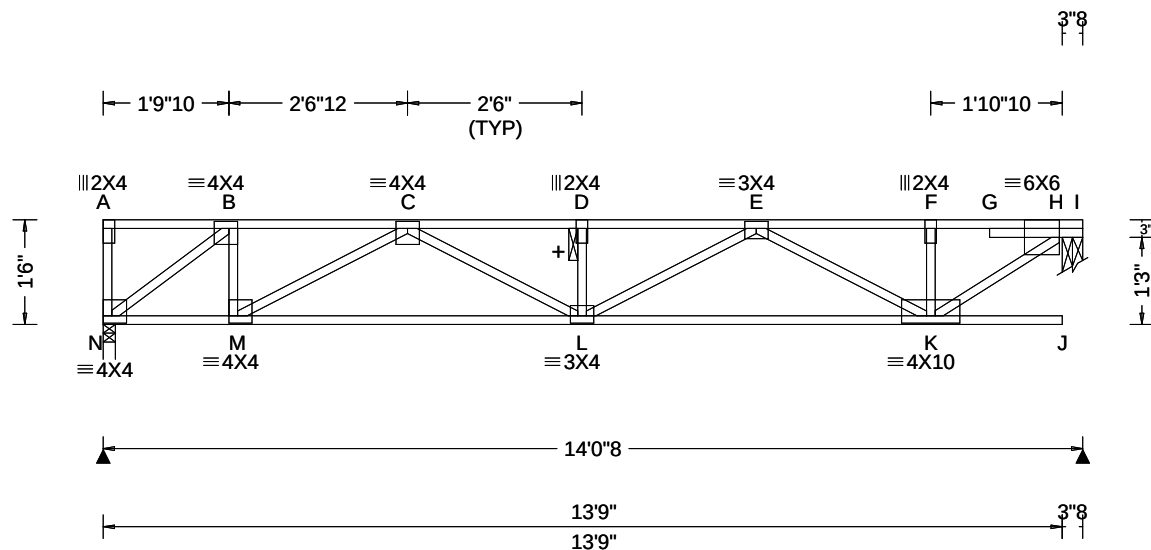
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQ: 12718	SY42	Ply: 1	Job Number: JB-220699	Cust: R 9316 JRef:1XIQ93160002 T25
FROM:		Qty: 4	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1742.16117
			Truss Label: F23	/ FK 05/22/2022



Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria			▲ Maximum Reactions (lbs)							
TCLL:	40.00	Wind Std: NA	Pg: NA	Ct: NA	CAT: NA	PP Deflection in loc L/def L/#			Gravity			Non-Gravity			
TCDL:	25.00	Speed: NA mph	Pf: NA		Ce: NA	VERT(LL): 0.092 D 999 480			Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
IBCLL:	0.00	Enclosure: NA	Lu: NA	Cs: NA		VERT(CL): 0.172 D 970 360			N	694	/-	/-	/-	/-	/-
BCDL:	10.00	Category: NA	Snow Duration: NA			HORZ(LL): 0.016 B - -			H	707	/-	/-	/-	/-	/-
		EXP: NA Kzt: NA			Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	HORZ(TL): 0.029 B - -			Creep Factor: 2.0						
Des Ld:	75.00	Mean Height: NA ft				Max TC CSI: 0.613			N Brg Wid = 2.1 Min Req = 1.5 (Truss)						
NCBCLL:	0.00	TCDL: NA psf				Max BC CSI: 0.522			H Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Soffit:	0.00	BCDL: NA psf				Max Web CSI: 0.325			Bearings N & H are a rigid surface.						
Load Duration:	1.00	MWFRS Parallel Dist: NA				Members not listed have forces less than 375#									
Spacing:	16.0 "	C&C Dist a: NA ft			Maximum Top Chord Forces Per Ply (lbs)										
		Loc. from endwall: NA			Chords Tens.Comp. Chords Tens. Comp.										
		l: NA GCpi: NA			B - C 0 -869 E - F 0 -931										
		Wind Duration: NA			C - D 0 -1793 F - H 0 -930										
					D - E 0 -1793										

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Truss must be installed as shown with top chord up.

▲ Maximum Reactions (lbs)						
Gravity			Non-Gravity			
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	694	/-	/-	/-	/-	/-
H	707	/-	/-	/-	/-	/-
N	Brg Wid = 2.1		Min Req = 1.5 (Truss)			
H	Brg Wid = 3.5		Min Req = 1.5 (Truss)			
Bearings N & H are a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords			Tens. Comp.			
Chords	Tens. Comp.		Chords	Tens. Comp.		
B - C	0	- 869	E - F	0	- 931	
C - D	0	- 1793	F - H	0	- 930	
D - E	0	- 1793				

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	831	0	L - K	1548	0
M - L	1525	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - B	0 - 1045	E - K	0 - 704
B - M	425 0	K - H	1152 0
M - C	0 - 752		



05/22/2022

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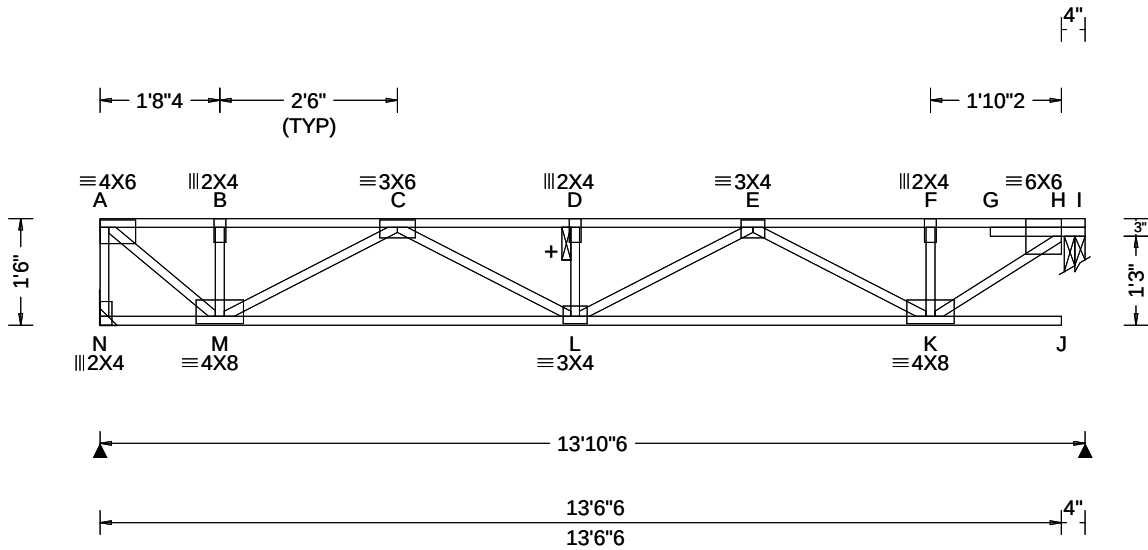
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12720 FROM:	SY42 Qty: 4	Ply: 1 Qty: 4	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F24	Cust: R 9316 JRef:1XIQ93160002 T3 DrwNo: 142.22.1743.22627 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.090 D 999 480 VERT(CL): 0.167 D 982 360 HORZ(LL): 0.014 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.604 Max BC CSI: 0.513 Max Web CSI: 0.320 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL N 685 /- /- /- /- /- H 697 /- /- /- /- /- N Brg Wid = - Min Req = - H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing H is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 0 -776 D - E 0 -1749 B - C 0 -776 E - F 0 -917 C - D 0 -1749 F - H 0 -916

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Additional Notes

+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	1463 0	L - K	1518 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
A - N	0 -684	E - K	0 -687
A - M	1001 0	K - H	1134 0
M - C	0 -784		



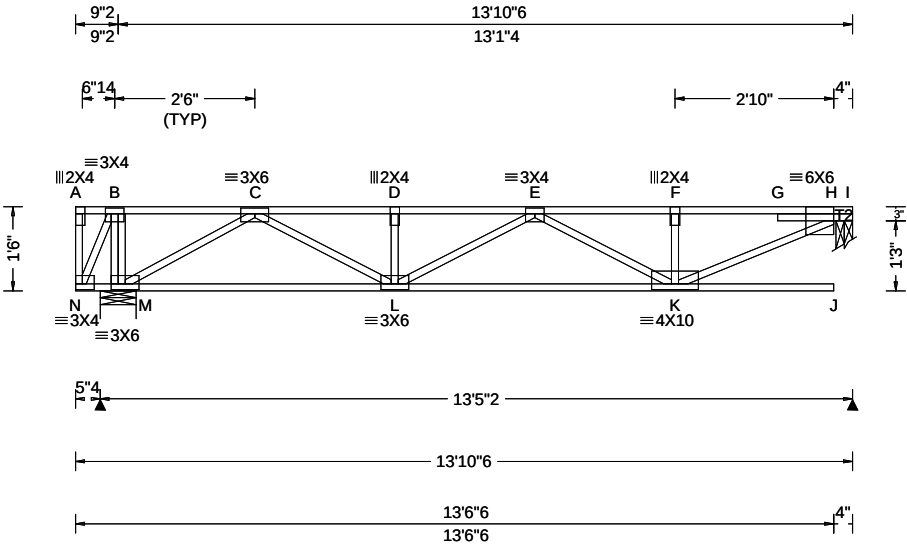
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Building 14

SEQN: 12722 FROM:	SY42 Qty: 4	Ply: 1 Qty: 4	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F25	Cust: R 9316 JRef:1XIQ93160002 T11 DrwNo: 142.22.1743.24943 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.197 J 784 480 VERT(CL): 0.316 J 488 360 HORZ(LL): 0.013 A - - HORZ(TL): 0.024 A - - Creep Factor: 2.0 Max TC CSI: 0.609 Max BC CSI: 0.630 Max Web CSI: 0.367 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL M 729 /- /- /- /- /- H 659 /- /- /- /- /- M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. C - D 0 -1447 E - F 0 -1177 D - E 0 -1447 F - H 0 -1178

Lumber

Top chord: 4x2 SPF 2100f-1.8E; T2 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection

Max JT VERT DEFL: LL: 0.20" DL: 0.32". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging
recommendations.

Maximum panel length exceeds 30". TPI allows
non-bearing partition walls to be supported at any
point when panels are 30" or less.

Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	912	L - K	1482
	0		0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
M - C	0 -1015	K - H	1301
C - L	614		0



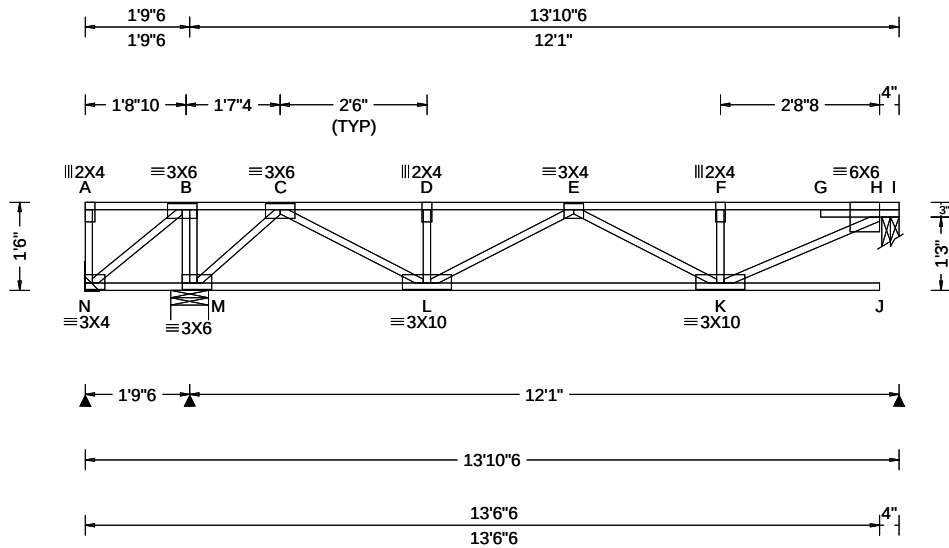
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12724 FROM:	SY42	Ply: 1 Qty: 4	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F26	Cust: R 9316 JRef:1XIQ93160002 T5 DrwNo: 142.22.1743.27100 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.158 J 897 480 VERT(CL): 0.249 J 570 360 HORZ(LL): 0.007 C - - HORZ(TL): 0.013 C - - Creep Factor: 2.0 Max TC CSI: 0.823 Max BC CSI: 0.493 Max Web CSI: 0.284 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N - /-358 /- /- /- /- M 1154 /- /- /- /- /- H 547 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.16" DL: 0.25". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Negative reaction(s) of -358# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
Truss must be installed as shown with top chord up.

Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	510 0	E - F	0 -902
C - D	0 -819	F - H	0 -903
D - E	0 -819		

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.

N - M	0 -465	L - K	1035 0
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Maximum Web Forces Per Ply (lbs)
Webs Tens.Comp. Webs Tens. Comp.

N - B	596 0	C - L	815 0
B - M	0 -533	K - H	1005 0
M - C	0 -843		



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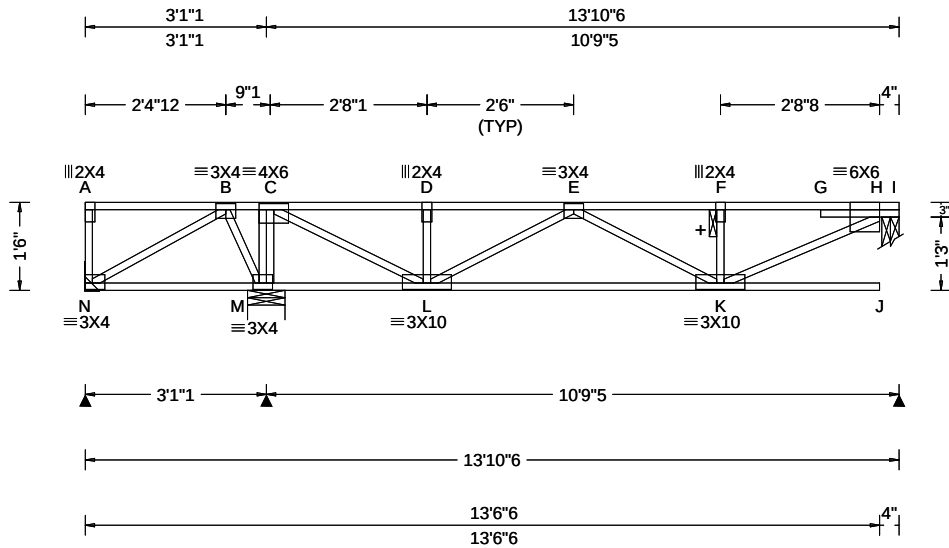
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 12726 FROM:	SY42 Qty: 4	Ply: 1 Qty: 4	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F27	Cust: R 9316 JRef:1XIQ93160002 T9 DrwNo: 142.22.1743.29187 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.147 J 869 480 VERT(CL): 0.233 J 549 360 HORZ(LL): 0.004 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.748 Max BC CSI: 0.436 Max Web CSI: 0.272 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 44 /-139 /- /- /- /- M 963 /- /- /- /- /- H 491 /- /- /- /- /- N Brg Wid = - Min Req = - M Brg Wid = 7.7 Min Req = 1.5 (Truss) H Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings M & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Deflection
Max JT VERT DEFL: LL: 0.15" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.
Maximum panel length exceeds 30". TPI allows non-bearing partition walls to be supported at any point when panels are 30" or less.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	427	0	E - F	0	-782
C - D	0	-495	F - H	0	-784
D - E	0	-495			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - C	0	-633	K - H	872	0
C - L	964	0			



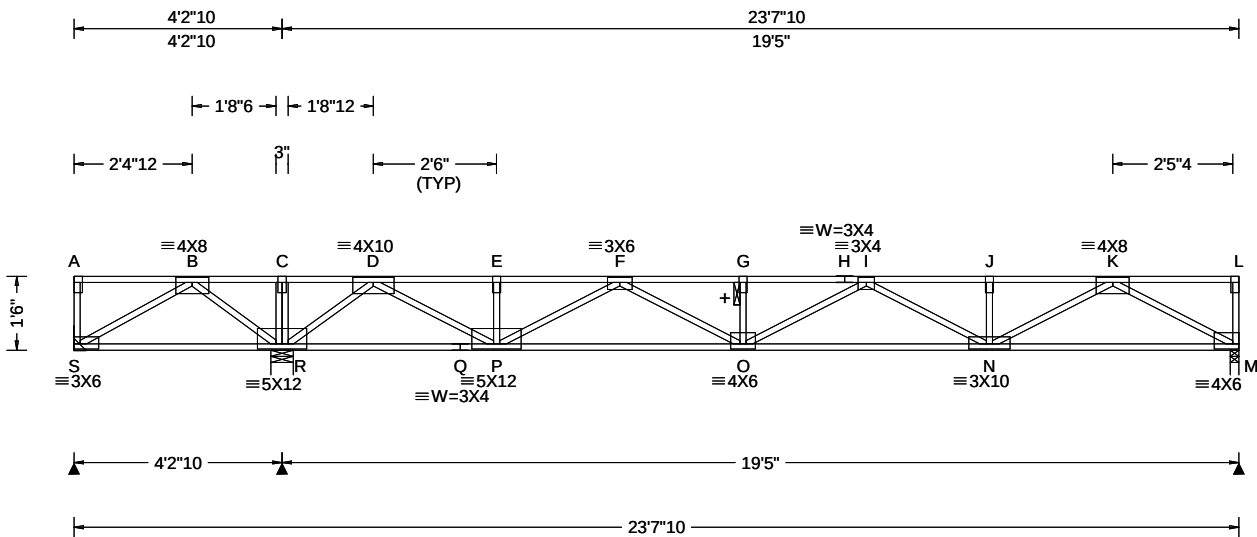
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Building 14

SEQN: 12728 FROM:	SY42 Ply: 1 Qty: 8	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: F28	Cust: R 9316 JRef:1XIQ93160002 T10 DrwNo: 142.22.1743.32467 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
				Gravity			Non-Gravity				
TCLL: 40.00	Wind Std: NA	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
TCDL: 25.00	Speed: NA mph	Pf: NA Ce: NA	VERT(LL): 0.196 G 999 480	S	-	/-490	/-	/-	/-	/-	
BCLL: 0.00	Enclosure: NA	Lu: NA Cs: NA	VERT(CL): 0.369 G 630 360	R	1906	/-	/-	/-	/-	/-	
BCDL: 10.00	Category: NA	Snow Duration: NA	HORZ(LL): 0.021 M - -	M	843	/-	/-	/-	/-	/-	
Des Ld: 75.00	EXP: NA Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:12(0)/10(0) Plate Type(s): WAVE	HORZ(TL): 0.039 M - -	S	Brg Wid = -		Min Req = -				
NCBCLL: 0.00	Mean Height: NA ft		Creep Factor: 2.0	R	Brg Wid = 5.5		Min Req = 1.5 (Truss)				
Soffit: 0.00	TCDL: NA psf		Max TC CSI: 0.660	M	Brg Wid = 2.1		Min Req = 1.5 (Truss)				
Load Duration: 1.00	BCDL: NA psf		Max BC CSI: 0.795	Bearings R & M are a rigid surface.							
Spacing: 16.0 "	MWFRS Parallel Dist: NA		Max Web CSI: 0.467	Members not listed have forces less than 375#							
	C&C Dist a: NA ft			Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: NA			Chords		Tens.Comp.		Chords		Tens. Comp.	
	I: NA GCpi: NA										
	Wind Duration: NA		VIEW Ver: 21.02.00.1005.17								

Lumber
Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Plating Notes
All plates are 2X4 except as noted.

Deflection
Max JT VERT DEFL: LL: 0.20" DL: 0.19". See detail
DEFLCAMB1014 for camber recommendations.

Additional Notes
+ 2x6 continuous strongback. See detail
STRBRIBR1014 for bracing and bridging
recommendations.
Negative reaction(s) of -490# MAX. from a non-wind
load case requires uplift connection. See Maximum
Reactions.
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)							
Chords		Tens.Comp.		Chords		Tens. Comp.	
S - R		0 - 944		P - O		1976 0	
R - Q		0 - 440		O - N		2573 0	
Q - P		0 - 440		N - M		1350 0	

Maximum Web Forces Per Ply (lbs)							
Webs		Tens.Comp.		Webs		Tens. Comp.	
S - B		1088 0		F - O		633 0	
B - R		0 - 1142		I - N		0 - 408	
R - D		0 - 1649		N - K		988 0	
D - P		1656 0		K - M		0 - 1532	
P - F		0 - 1087					

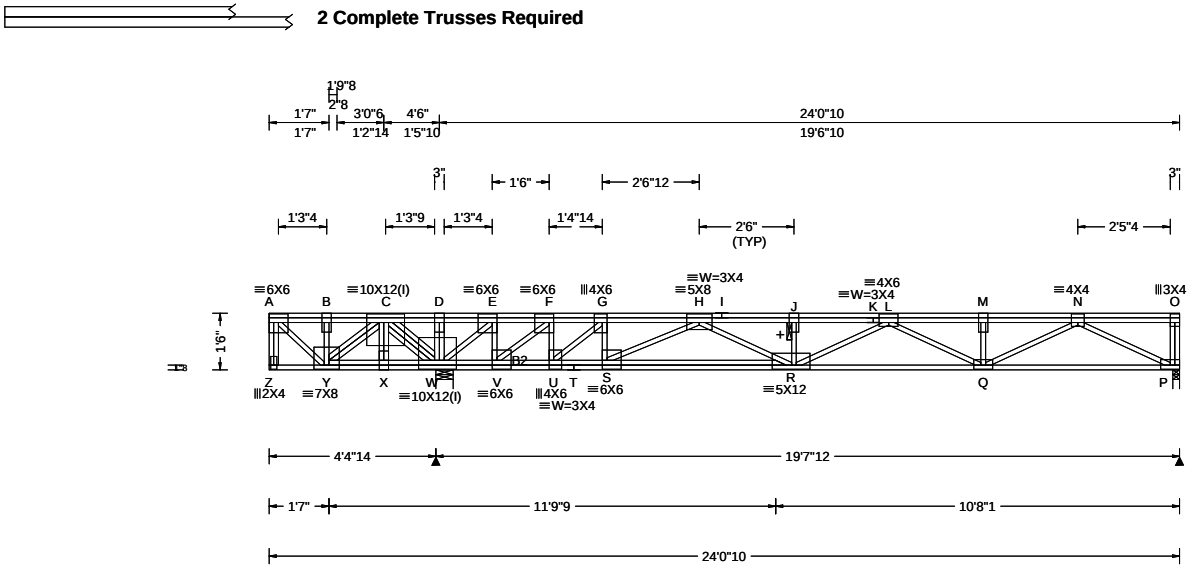


05/22/2022

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SEQ: 12730	SY42	Ply: 2	Job Number: JB-220699	Cust: R 9316 JRef:1XIQ93160002 T12
FROM:		Qty: 4	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1743.35360
			Truss Label: F28G	/ FK 05/22/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)										
TCLL:	40.00	Wind Std:	NA	Pg: NA	Ct: NA	CAT: NA	PP Deflection in	loc	L/def	L/#	Gravity			Non-Gravity				
TCDL:	25.00	Speed:	NA mph	Pf: NA		Ce: NA	VERT(LL):	0.120	A	443	480	Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL	
BCLL:	0.00	Enclosure:	NA	Lu: NA	Cs: NA		VERT(CL):	0.268	Z	198	360	W	8750	/-	/-	/-	/-	/-
BCDL:	10.00	Category:	NA	Snow Duration:	NA		HORZ(LL):	-0.025	A	-	-	P	618	/-243	/-	/-	/-	/-
Des Ld:	75.00	EXP:	NA Kzt: NA				HORZ(TL):	0.057	A	-	-	P	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
NCBCLL:	0.00	Mean Height:	NA ft				Creep Factor:	2.0				W	Brg Wid = 2.1 Min Req = 1.5 (Truss)					
Soffit:	0.00	TCDL:	NA psf				Max TC CSI:	0.433				Bearings W & P are a rigid surface.						
Load Duration:	1.00	BCDL:	NA psf				Max BC CSI:	0.260				Members not listed have forces less than 375#						
Spacing:	16.0 "	MWFRS Parallel Dist:	NA				Max Web CSI:	0.271				Maximum Top Chord Forces Per Ply (lbs)						
		C&C Dist a:	NA ft									Chords	Tens.Comp.	Chords	Tens.	Comp.		
		Loc. from endwall:	NA									A - B	597	0	H - I	1855	-383	
		l: NA GCpi:	NA									B - C	597	0	I - J	1855	-383	
		Wind Duration:	NA									C - D	597	0	J - K	1855	-383	
			</															

Top chord: 4x2 DF-L 2400f-2.0E;
Bot chord: 4x2 DF-L 2400f-2.0E;
B2 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

----- (Lumber Dur.Fac.=1.00 / Plate Dur.Fac.=1.00)
 TC: From 87 plf at 0.00 to 87 plf at 24.05
 BC: From 13 plf at 0.00 to 13 plf at 24.05
 TC: 1129 lb Conc. Load at 0.12
 TC: 5500 lb Conc. Load at 3.03

All plates are 3X6 except as noted.

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

See DWG CNSY42PL0118 for connection details of 2 ply trusses.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Negative reaction(s) of -243# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.

Truss must be installed as shown with top chord up.



05/22/2022

Chords	Tens.Comp.	Chords	Tens. Comp.
Y - X	0 - 1645	T - S	0 - 3597
X - W	0 - 1635	S - R	0 - 2646
W - V	0 - 4815	R - Q	647 - 1215
V - U	0 - 4178	Q - P	456 - 296
U - T	0 - 3597		

Webs	Tens.Comp.	Webs	Tens.	Comp.
A - Y	0 - 789	G - S	577	0
Y - C	1366 0	S - H	0	- 1230
C - W	0 - 5021	H - R	961	0
W - E	0 - 1030	R - L	0	- 716
E - V	677 0	L - Q	599	0
V - F	0 - 1093	Q - N	264	- 439
F - U	694 0	N - P	330	- 495
U - G	0 - 980			

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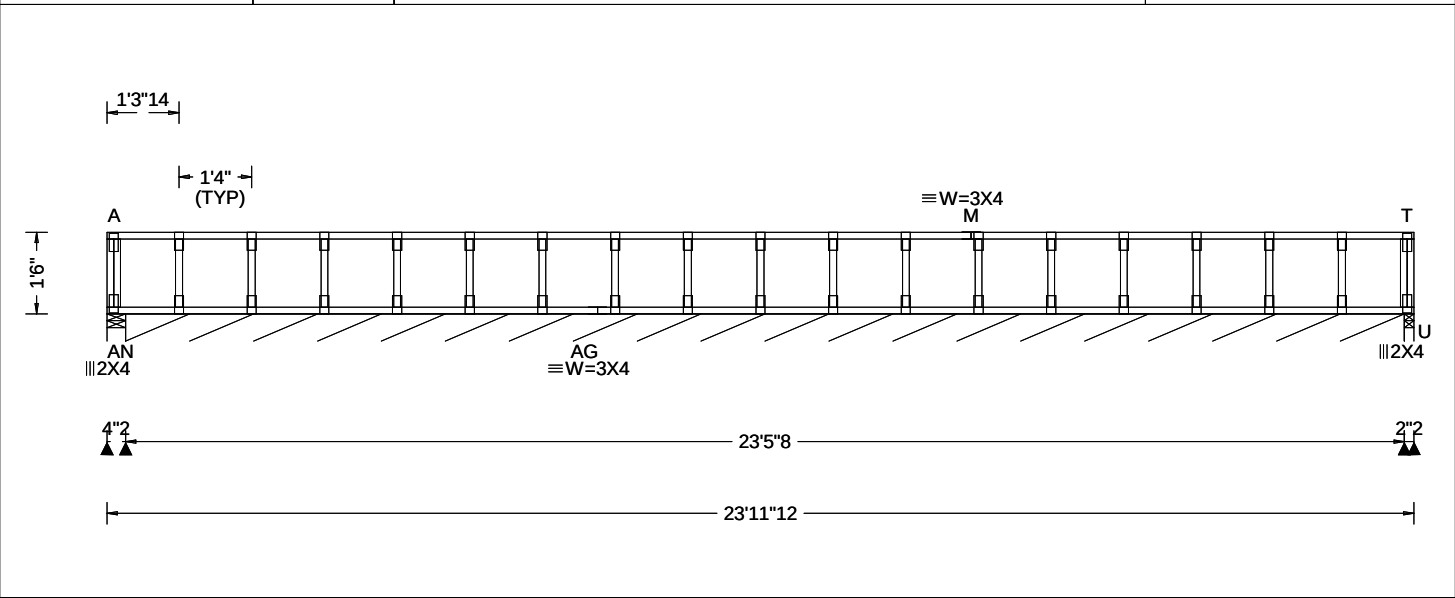
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North Building, 4th Floor
Glenview, IL 60025

Building 14

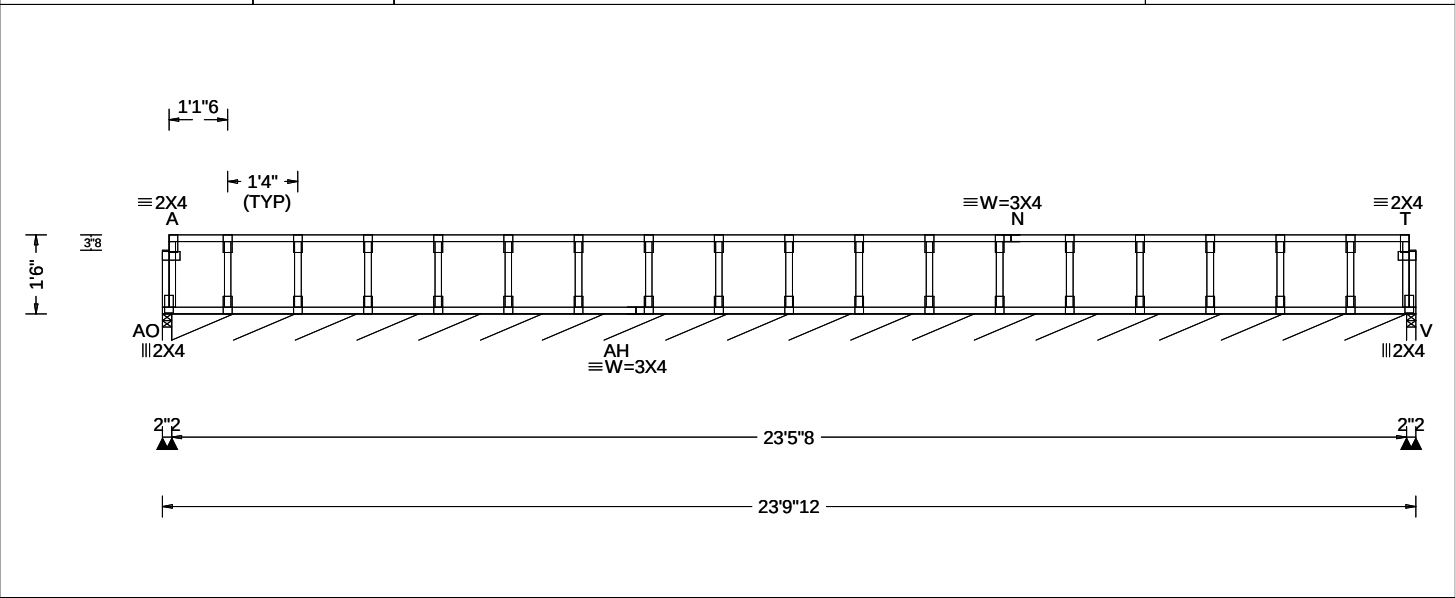
SEQN: 12732 FROM:	SY42 Qty: 2	Ply: 1 Qty: 2	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L11	Cust: R 9316 JRef:1XIQ93160002 T29 DrwNo: 142.22.1743.37543 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)			Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF						
TCLL:	40.00	Wind Std:	NA	Pg: NA	Ct: NA	CAT: NA	PP Deflection in loc L/defl L/#		Gravity			Non-Gravity			
TCDL:	25.00	Speed:	NA mph	Pf: NA		Ce: NA	VERT(LL): 0.000 T 999 480		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure:	NA	Lu: NA	Cs: NA		VERT(CL): 0.001 T 999 360		AN 68	/-	/-	/-	/-	/-	/-
BCDL:	10.00	Category:	NA	Snow Duration: NA			HORZ(LL): -0.003 B - -		AN*97	/-	/-	/-	/-	/-	/-
Des Ld:	75.00	EXP: NA	Kzt: NA				HORZ(TL): 0.005 B - -		U 64	/-	/-	/-	/-	/-	/-
NCBCLL:	0.00	Mean Height:	NA ft	Building Code:			Creep Factor: 2.0		AN Brg Wid = 4.1	Min Req = 1.5 (Truss)					
Soffit:	0.00	TCDL:	NA psf	IBC 2018			Max TC CSI: 0.060		AN Brg Wid = 281	Min Req = -					
Load Duration:	1.00	BCDL:	NA psf	TPI Std: 2014			Max BC CSI: 0.013		U Brg Wid = 2.1	Min Req = 1.5 (Truss)					
Spacing:	16.0 "	MWFRS Parallel Dist:	NA	Rep Fac: Yes			Max Web CSI: 0.018		Bearings AN, AN, & U are a rigid surface.						
		C&C Dist a:	NA ft	FT/RT:20(0)/10(0)					Members not listed have forces less than 375#						
		Loc. from endwall:	NA	Plate Type(s):											
		I: NA	GCpi: NA	WAVE											
		Wind Duration:	NA												
						</									

Building 14

SEQN: 12734 FROM:	SY42 Qty: 4	Ply: 1 Qty: 4	Job Number: JB-220699 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: L21	Cust: R 9316 JRef:1XIQ93160002 T30 DrwNo: 142.22.1743.43040 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 40.00 TCDL: 25.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 75.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.00 Spacing: 16.0 "	Wind Std: NA Speed: NA mph Enclosure: NA Category: NA EXP: NA Kzt: NA Mean Height: NA ft TCDL: NA psf BCDL: NA psf MWFRS Parallel Dist: NA C&C Dist a: NA ft Loc. from endwall: NA I: NA GCpi: NA Wind Duration: NA	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 T 999 480 VERT(CL): 0.000 T 999 360 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.057 Max BC CSI: 0.009 Max Web CSI: 0.018 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL AO 48 -/-/-/-/- AO*97 -/-/-/-/- V 48 -/-/-/-/- AO Brg Wid = 2.1 Min Req = 1.5 (Truss) AO Brg Wid = 281 Min Req = - V Brg Wid = 2.1 Min Req = 1.5 (Truss) Bearings AO, AO, & V are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 4x2 SPF #1/#2;
Bot chord: 4x2 SPF #1/#2;
Webs: 4x2 SPF #1/#2;

Bracing

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Additional Notes

See detail STRBRIBR1014 for bracing and bridging recommendations.

Provide for complete drainage of roof.

Truss must be installed as shown with top chord up.



05/22/2022

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Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org

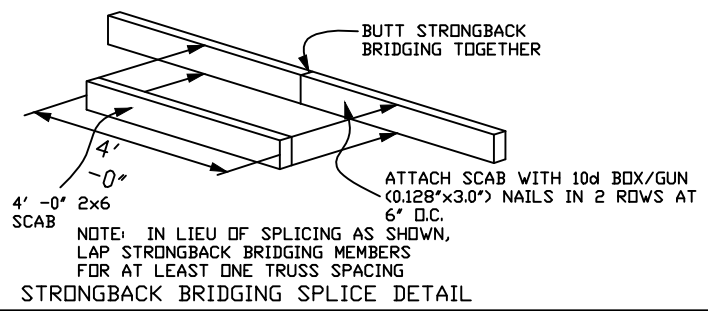


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REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014

STRONGBACK BRIDGING RECOMMENDATIONS

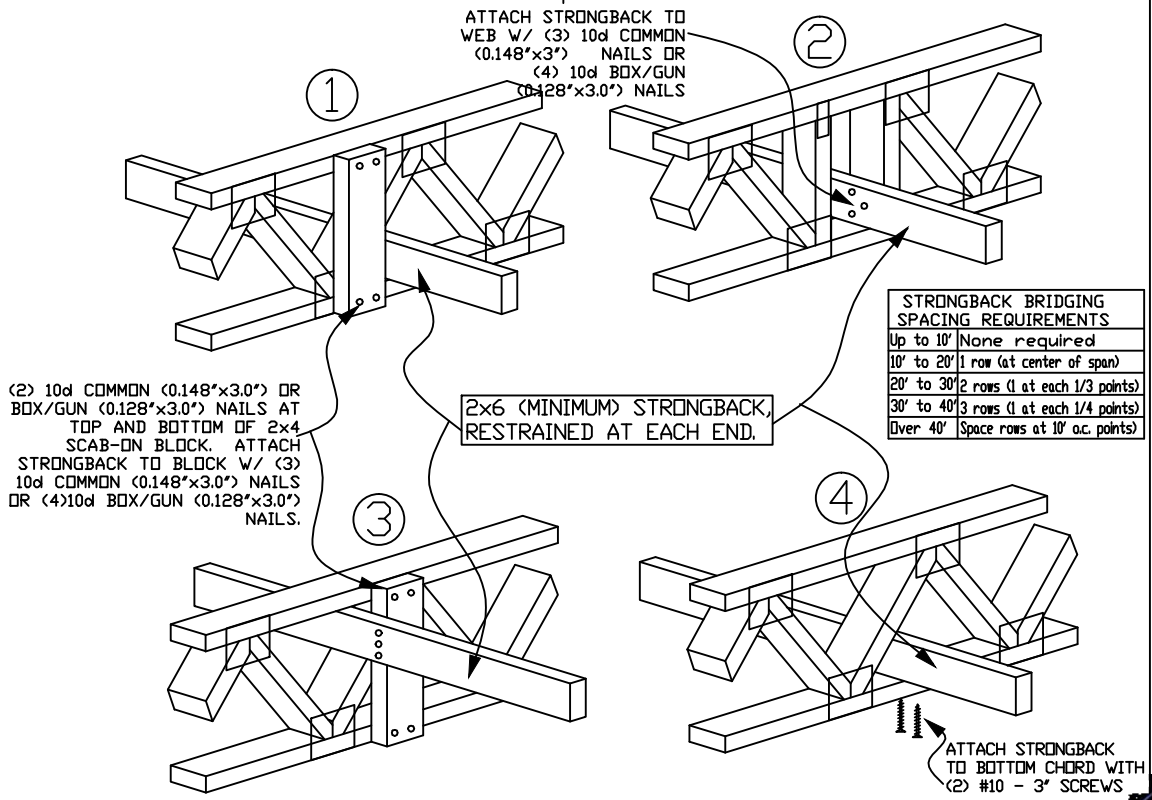


- ▶ All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- ▶ All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- ▶ The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- ▶ The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES



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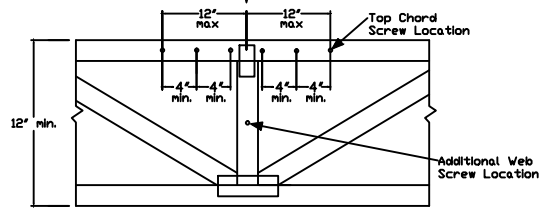
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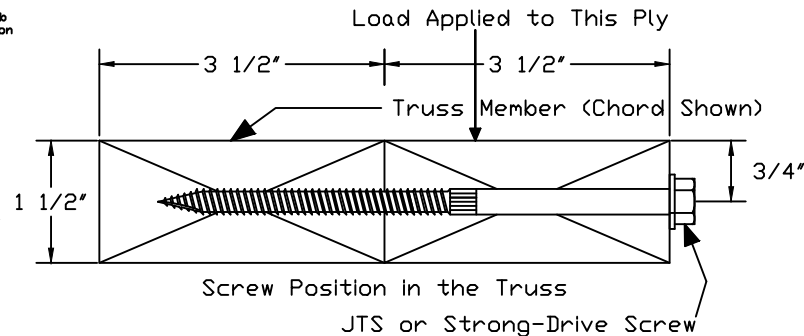
TC LL	PSF	REF	STRONGBACK
TC DL	PSF	DATE	10/01/14
BC DL	PSF	DRWG	STRBRIBR1014
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

Max. Concentrated	Load per Chart Below
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If the concentrated load connection requires more screws than 6 per top chord member and the load is located at a panel point where webs intersect the top chord, the remainder of required screws may be applied to those webs below the concentrated load location evenly spaced @ 4" o.c., min, keeping the 3' min end distances. Each additional screw is worth 474 lb for SP webs, 442 lb for DFL webs, and 400 lb for SPF webs.

Refer to Alpine sealed drawing
for individual truss design.



For chord sections supporting less than 100 plf apply one screw at each top chord joint location.

# of Screws	Maximum Concentrated Load (lbs) (1.00 DF)		
	SP	DFL	SPF
1	474	442	400
2	984	884	800
3	1422	1326	1200
4	1896	1768	1600
5	2370	2210	2000
6	2844	2652	2400
7	3318	3094	2800
8	3792	3536	3200
9	4266	3978	3600
10	4740	4420	4000
11	5214	4862	4400
12	5688	5304	4800

1. Screws centered along the 1.5' dimension of the 4x2 member.
2. Minimum end distance of 3".
3. Screws installed with head in loaded member.
4. Gap between plies not to exceed 1/8".
5. Screw location may be adjusted up to 1' to avoid conflict with other hardware or to avoid lumber defects.
6. Do not install screws in areas where lumber wane exceeds 1/4".
7. Equal loads from both faces or loads that are evenly distributed to each ply do not require connections per this detail.
8. For 3x2 members use GRK (RSS) JTS 1/4x5 screws, or Simpson's SDS25412 or SDW22500 screws or equal.
9. Contact Alpine for special connections not covered by this detail.

Top Chord Screw o.c. Spacing (inch)	Maximum Uniform Load (plf) Along Top Chord (1.00 DF)		
	SP	DFL	SPF
4	1422	1326	1200
6	948	884	800
8	711	663	600
10	568	530	480
12	474	442	400
14	406	378	342
16	355	331	300
18	316	294	266
20	284	265	240
22	258	241	218
24	237	221	200



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ALPINE: www.alpinetw.com; TPI: www.tpinet.org; SBGA: www.sbgcomponents.com; ICC: www.iccsafe.org



TC LL	PSF	REF	SY42 Connection
TC DL	PSF	DATE	01/19/2018
BC DL	PSF	DRWG	CNSY42PL0118
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

Load applied to this ply

Max. T.C. Uniform Load (plf)			Clip Spacing Along Top Chord
SP	DF	SPF/HF	
935	810	585	12' o.c.
625	540	390	18' o.c.
470	405	295	24' o.c.
375	325	235	30' o.c.

Max. Load (lbs)
(See Table)

Load applied to this ply

The diagram illustrates a three-ply beam assembly. A central vertical ply is supported by two diagonal bracing members. Two horizontal plies are positioned above and below the central ply, connected by vertical supports. A downward arrow labeled 'Max. Load (lbs) (See Table)' points to the central vertical ply. A curved arrow labeled 'Load applied to this ply' points to the top horizontal ply.

Max Load (lbs)		
SP	DF	SPF/HF
1870	1620	1170

Note:
Install LSC adjacent, equidistant,
and not more than 6" on each
side of concentrated load.

1. Position and attach LSC to loaded ply with (3) 0.131"x1.5" nails into narrow face.
2. Bend clip over adjacent ply and attach with (3) 0.131"x1.5" nails into wide face.

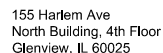


LSC42 for single 4x2 chords
LSC32 for single 3x2 chords



LSC42-2 for stacked 4x2 chords
LSC32-2 for stacked 3x2 chords

Refer to Alpine sealed drawing for internal truss design.



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For more information see this job's general notes page and these web sites:
ALPINE: www.alpinetv.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



5/22/2022

REF SY42 Connection

DATE	10/01/14
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DRWG LSCSYX2A1014

DUR. FAC.

ALL



05/22/2022



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alpineitw.com

SHOP DRAWING REVIEW

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

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

REFER TO DEFINITIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 05/30/2022 BY: CB

Site Information:	Page 1:
Customer: Mill Creek Truss	Job Number: JB-220700
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Job Engineering Criteria:	
Design Code: IBC 2018	IntelliVIEW Version: 21.02.00
	JRef #: 1XfQ93160003
Wind Standard: ASCE 7-16	Wind Speed (mph): 109
Building Type: Closed	Design Loading (psf): 65.00

This package contains general notes pages, 128 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	142.22.1744.28663	J02	2	142.22.1744.31363	J02A
3	142.22.1744.33667	J02G	4	142.22.1744.35963	J02GA
5	142.22.1744.38277	J03	6	142.22.1744.40787	J03A
7	142.22.1744.43700	T01	8	142.22.1744.46240	T01A
9	142.22.1744.49257	T02A	10	142.22.1744.51863	T03A
11	142.22.1744.55193	T04A	12	142.22.1744.59533	T05A
13	142.22.1745.01960	T06A	14	142.22.1745.04300	T07A
15	142.22.1745.06667	T08A	16	142.22.1745.09163	T10
17	142.22.1745.38190	T10A	18	142.22.1745.40563	T11
19	142.22.1745.43183	T11A	20	142.22.1745.45580	T12
21	142.22.1745.47920	T12A	22	142.22.1745.50243	T13
23	142.22.1745.52550	T13A	24	142.22.1745.54800	T14
25	142.22.1745.57430	T14A	26	142.22.1746.05160	T15
27	142.22.1746.07693	T15A	28	142.22.1746.10180	T17
29	142.22.1746.12860	T17A	30	142.22.1746.15680	T18
31	142.22.1746.18560	T18A	32	142.22.1746.21343	T19
33	142.22.1746.23877	T19A	34	142.22.1746.26870	T20
35	142.22.1746.29637	T20A	36	142.22.1746.32250	T21
37	142.22.1746.34777	T21A	38	142.22.1746.37470	T22
39	142.22.1746.40240	T22A	40	142.22.1746.42947	T23
41	142.22.1746.45490	T23A	42	142.22.1746.48120	T24
43	142.22.1746.50930	T24A	44	142.22.1746.53663	T25
45	142.22.1746.56357	T25A	46	142.22.1746.59010	T26
47	142.22.1747.01643	T26A	48	142.22.1747.04203	T27
49	142.22.1747.06820	T27A	50	142.22.1747.09547	T28

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Site Information:	Page 2:
Customer: Mill Creek Truss	Job Number: JB-220700
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
51	142.22.1747.12337	T28A
53	142.22.1747.31687	T29A
55	142.22.1747.37363	T30A
57	142.22.1747.43073	T31A
59	142.22.1747.48620	T33A
61	142.22.1747.54217	T34A
63	142.22.1748.00200	T35A
65	142.22.1748.05820	T36A
67	142.22.1748.11457	T37A
69	142.22.1748.17110	T38A
71	142.22.1748.23230	T39A
73	142.22.1748.29127	T40A
75	142.22.1748.35043	T41A
77	142.22.1748.40637	T42A
79	142.22.1748.46480	T43A
81	142.22.1748.52203	T44A
83	142.22.1748.57717	T45A
85	142.22.1749.03270	T46A
87	142.22.1749.08757	T47A
89	142.22.1749.13873	T49
91	142.22.1749.19027	T50
93	142.22.1749.24320	T51A
95	142.22.1749.29880	T52A
97	142.22.1749.35263	TGE02
99	142.22.1749.40890	TGE04
101	142.22.1749.46627	TGE06
103	142.22.1749.52087	TGE08
105	142.22.1749.57423	TGE10
107	142.22.1750.52540	TGE12
109	142.22.1750.58110	TGE14
111	142.22.1751.06753	TGE16
113	142.22.1751.12013	TGE18
115	142.22.1751.17440	TGE20

Item	Drawing Number	Truss
52	142.22.1747.14950	T29
54	142.22.1747.34627	T30
56	142.22.1747.40307	T31
58	142.22.1747.45727	T33
60	142.22.1747.51550	T34
62	142.22.1747.57210	T35
64	142.22.1748.03030	T36
66	142.22.1748.08630	T37
68	142.22.1748.14423	T38
70	142.22.1748.20577	T39
72	142.22.1748.26080	T40
74	142.22.1748.32087	T41
76	142.22.1748.37777	T42
78	142.22.1748.43550	T43
80	142.22.1748.49320	T44
82	142.22.1748.54930	T45
84	142.22.1749.00387	T46
86	142.22.1749.06050	T47
88	142.22.1749.11213	T48A
90	142.22.1749.16527	T49A
92	142.22.1749.21637	T50A
94	142.22.1749.27440	T52
96	142.22.1749.32510	TGE01
98	142.22.1749.38103	TGE03
100	142.22.1749.43713	TGE05
102	142.22.1749.49447	TGE07
104	142.22.1749.54590	TGE09
106	142.22.1750.49620	TGE11
108	142.22.1750.55223	TGE13
110	142.22.1751.00650	TGE15
112	142.22.1751.09360	TGE17
114	142.22.1751.14700	TGE19
116	142.22.1751.20053	TGE21



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Site Information:	Page 3:
Customer: Mill Creek Truss	Job Number: JB-220700
Job Description: Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	
Address: 2100 NW Lowenstein Dr , Lee's Summit, MO	

Item	Drawing Number	Truss
117	142.22.1751.22523	TGE22
119	142.22.1751.28050	T09A
121	142.22.1751.35613	T16
123	142.22.1751.51530	TGE24
125	142.22.1751.58483	T16A
127	142.22.1752.07273	J02C
129	A11530ENC160118	
131	GBLLETIN0118	
133	DEFLCAMB1014	

Item	Drawing Number	Truss
118	142.22.1751.25090	TGE23
120	142.22.1751.32310	T32
122	142.22.1751.48310	T48
124	142.22.1751.54323	T08
126	142.22.1752.01647	T32A
128	142.22.1752.15687	T09
130	GABRST160118	
132	BRCLBSUB0119	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

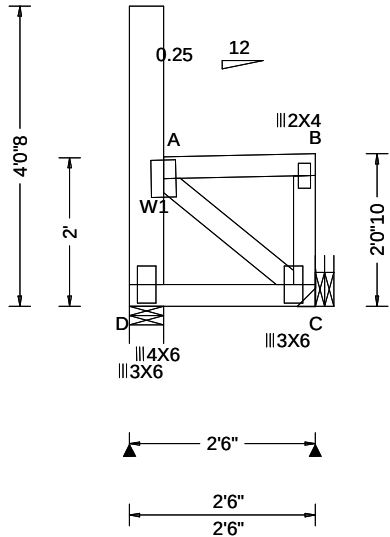
Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.

Building 14

SEQN: 37817 FROM:	MONO Ply: 1 Qty: 18	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02	Cust: R 9316 JRef:1XIQ93160003 T193 DrwNo: 142.22.1744.28663 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	147	/-	/-	/114	/79	/90
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	173	/-	/-	/157	/63	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.001 B - -	D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
	Creep Factor: 2.0		C Brg Wid = - Min Req = -							
NCBCLL: 0.00	Mean Height: 21.03 ft	IBC 2018	Max TC CSI: 0.103	Bearing D is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.079	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	Rep Fac: Yes	Max Web CSI: 0.131	Maximum Web Forces Per Ply (lbs)						
	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)		Webs Tens.Comp.						
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Plate Type(s):								
	Loc. from endwall: Any	WAVE	VIEW Ver: 21.02.00.1005.17							
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



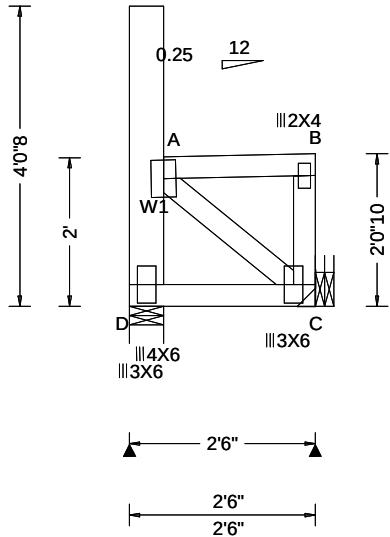
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Building 14

SEQN: 37818 FROM:	MONO Ply: 1 Qty: 17	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02A	Cust: R 9316 JRef:1XIQ93160003 T218 DrwNo: 142.22.1744.31363 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	147	/-	/-	/114	/80	/91
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	173	/-	/-	/158	/64	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	Wind reactions based on MWFRS						
	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	D	Brg Wid = 5.5		Min Req = 1.5 (Truss)			
Des Ld: 65.00	Mean Height: 21.70 ft	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Creep Factor: 2.0	C	Brg Wid = -		Min Req = -			
NCBCLL: 0.00	TCDL: 5.0 psf		Max TC CSI: 0.103	Bearing D is a rigid surface.						
Soffit: 2.00	BCDL: 3.0 psf		Max BC CSI: 0.079	Members not listed have forces less than 375#						
Load Duration: 1.15	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.131	Maximum Web Forces Per Ply (lbs)						
Spacing: 24.0 "	C&C Dist a: 3.00 ft			Webs	Tens.Comp.					
	Loc. from endwall: Any			A - C	240	-390				
	GCpi: 0.18									
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



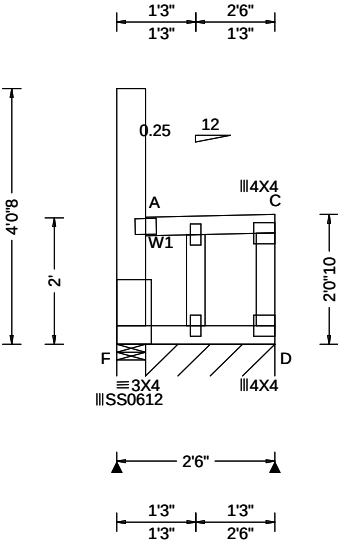
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Building 14

SEQN: 37820 FROM:	GABL Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02G	Cust: R 9316 JRef:1XIQ93160003 T109 DrwNo: 142.22.1744.33667 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.03 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): 18SS, WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 A 999 360 VERT(CL): 0.007 A 999 240 HORZ(LL): 0.091 A - - HORZ(TL): 0.104 A - - Creep Factor: 2.0 Max TC CSI: 0.128 Max BC CSI: 0.370 Max Web CSI: 0.163 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				F	47	/-	/-	/123	/145	/98
				D*	134	/-	/-	/129	/57	/-

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, &
GABRST160118 for gable wind bracing and other
requirements.
Truss must be installed as shown with top chord up.



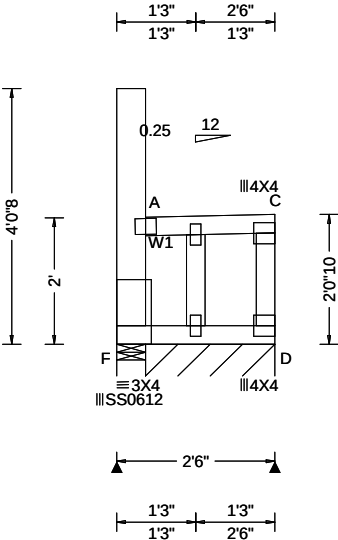
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Building 14

SEQN: 37821 FROM:	GABL Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J02GA	Cust: R 9316 JRef:1XIQ93160003 T1 DrwNo: 142.22.1744.35963 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.03 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): 18SS, WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 A 999 360 VERT(CL): 0.007 A 999 240 HORZ(LL): 0.091 A - - HORZ(TL): 0.104 A - - Creep Factor: 2.0 Max TC CSI: 0.128 Max BC CSI: 0.370 Max Web CSI: 0.163 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				F	47	/-	/-	/123	/145	/98
				D*	134	/-	/-	/129	/57	/-

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
Fasten rated sheathing to one face of this frame.

Plating Notes
All plates are 2X4 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
See DWGS A11530ENC160118, GBLLETIN0118, & GABRST160118 for gable wind bracing and other requirements.
Truss must be installed as shown with top chord up.



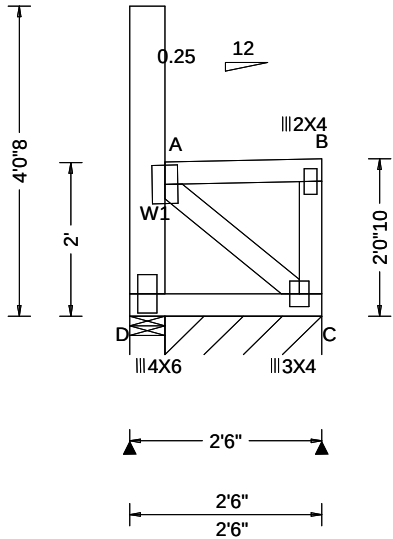
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37822 FROM:	MONO Ply: 1 Qty: 6	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J03	Cust: R 9316 JRef:1XIQ93160003 T133 DrwNo: 142.22.1744.38277 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	D	147	/-	/-	/122	/85	/98
BCDL:	15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	C*	85	/-	/-	/78	/33	/-
Des Ld:	65.00	EXP: B Kzt: NA		HORZ(TL): 0.001 B - -	Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height: 21.03 ft	Building Code:	Creep Factor: 2.0	D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Soffit:	2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.103	C Brg Wid = 24.5 Min Req = -						
Load Duration:	1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.079	Bearings D & D are a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.105	Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
		Loc. from endwall: not in 14.50 ft	Plate Type(s):								
		GCpi: 0.18									
		Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



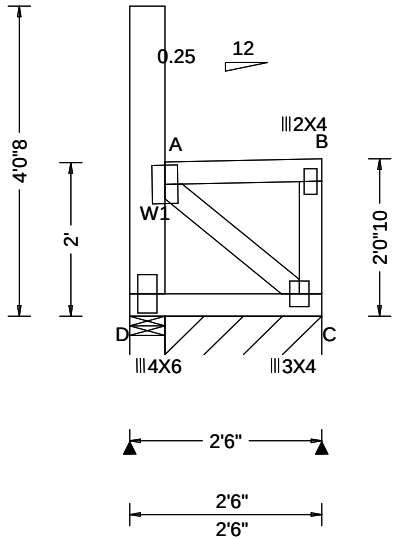
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Building 14

SEQN: 37823 FROM:	MONO Ply: 1 Qty: 4	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: J03A	Cust: R 9316 JRef:1XIQ93160003 T135 DrwNo: 142.22.1744.40787 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	147	/-	/-	/123	/86	/99
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C*	85	/-	/-	/78	/34	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 B - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	HORZ(TL): 0.001 B - -	D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
NCBCLL: 0.00	Mean Height: 21.70 ft		Creep Factor: 2.0	C Brg Wid = 24.5 Min Req = -						
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.103	Bearings D & D are a rigid surface.						
Load Duration: 1.15	BCDL: 3.0 psf		Max BC CSI: 0.079	Members not listed have forces less than 375#						
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h		Max Web CSI: 0.106							
	C&C Dist a: 3.00 ft			VIEW Ver: 21.02.00.1005.17						
	Loc. from endwall: not in 14.50 ft									
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Plating Notes
All plates are 3X6 except as noted.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 2.03 30.67 2.04
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

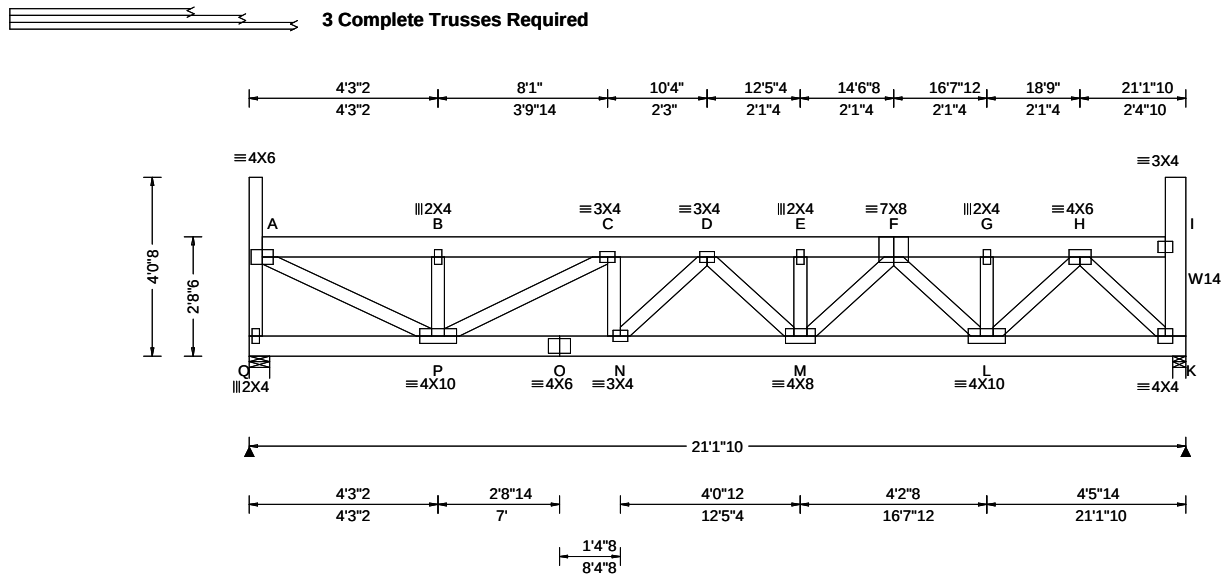
Additional Notes
Truss must be installed as shown with top chord up.



05/22/2022

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SEQN: 37944	FLAT	Ply: 3	Job Number: JB-220700	Cust: R 9316 JRef:1XIQ93160003 T11
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1744.43700
			Truss Label: T01	/ FK 05/22/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.062 D 999 360		Loc	R+	/R-	/Rh	/Rw	/U	/RL	
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CD): 0.116 D 999 240		Q 2043	-	-	-	-	/118	-	
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.015 K - -		K 2421	-	-	-	-	/151	-	
Des Ld: 65.00		EXP: B Kzt: NA				HORZ(TL): 0.027 K - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height: 21.70 ft				Creep Factor: 2.0		K Brg Wid = 5.5 Min Req = 1.5 (Truss)							
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.058		K Brg Wid = 3.5 Min Req = 1.5 (Truss)							
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.302		Bearings Q & K are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2				Max Web CSI: 0.302		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft						Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall: not in 14.50 ft						Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18						A - B		69 - 1145		E - F		156 - 2330	
		Wind Duration: 1.60						B - C		69 1145		E - F		04 1454	
						Building Code:		VIEW Ver: 21.02.00.1005.17							
						IBC 2018									
						TPI Std: 2014									
						Rep Fac: Yes									
						FT/RT:20(0)/10(0)									
						Plate Type(s):									
						WAVE									

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 9.00" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
 -----(Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 70 plf at 0.29 to 70 plf at 20.68
 BC: From 60 plf at 0.00 to 60 plf at 21.14
 BC: 1769 lb Conc. Load at 12.90

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.39	1.34	13.80	3.32
20.68	0.00	20.39	1.34	13.80	3.32

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

▲ Maximum Reactions (lbs)						
Gravity				Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	2043	/-	/-	/-	/118	/-
K	2421	/-	/-	/-	/151	/-

Wind reactions based on MWFRS
 Q Brg Wid = 5.5 Min Req = 1.5 (Truss)
 K Brg Wid = 3.5 Min Req = 1.5 (Truss)
 Bearings Q & K are a rigid surface.
 Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
A - B	69 - 1145	E - F	156 - 2330
B - C	68 - 1141	F - G	94 - 1454
C - D	117 - 1866	G - H	94 - 1454
D - E	156 - 2330		

Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
P - O	1823	- 114	M - L	1926	- 127
O - N	1823	- 114	L - K	802	- 52
N - M	2119	- 138			

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.		Webs	Tens. Comp.	
Q - A	38	- 641	M - F	589	- 42
A - P	1229	- 74	F - L	49	- 689
P - C	53	- 791	L - H	953	- 62
N - D	32	- 383	H - K	70	- 1088



05/22/2022

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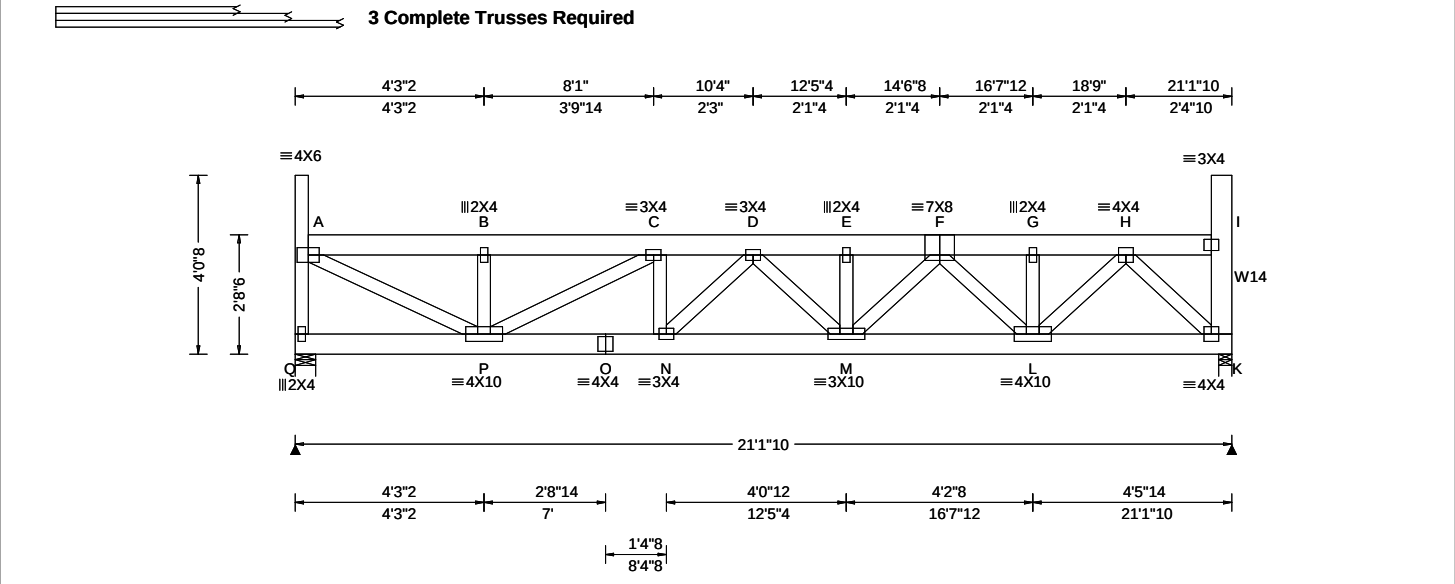
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Building 14

SEQN: 37942 FROM:	FLAT Ply: 3 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T01A	Cust: R 9316 JRef:1XIQ93160003 T9 DrwNo: 142.22.1744.46240 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.060 D 999 360 VERT(CL): 0.111 D 999 240 HORZ(LL): 0.014 K - - HORZ(TL): 0.026 K - - Creep Factor: 2.0 Max TC CSI: 0.054 Max BC CSI: 0.283 Max Web CSI: 0.291 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Q 1981 -/- /- /118 -/ K 2325 -/- /- /150 -/ Wind reactions based on MWFRS Q Brg Wid = 5.5 Min Req = 1.5 (Truss) K Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings Q & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W14 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 20.68
BC: From 60 plf at 0.00 to 60 plf at 21.14
BC: 1611 lb Conc. Load at 12.90

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
P - O	1751 -113	M - L	1836 -126
O - N	1751 -113	L - K	768 -51
N - M	2024 -137		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
Q - A	38 -620	F - L	48 -652
A - P	1188 -73	L - H	908 -61
P - C	53 -752	H - K	70 -1041
M - F	554 -42		

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 20.39 1.34 13.80 3.32
20.68 0.00 20.39 1.34 13.80 3.32
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.



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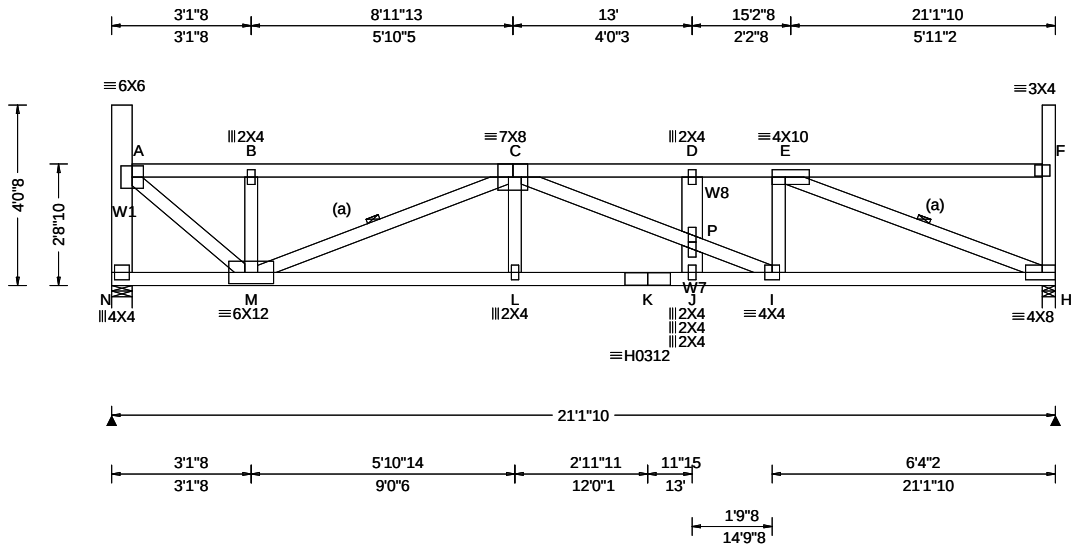
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37824 FROM:	FLAT Qty: 2	Ply: 1 Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T02A	Cust: R 9316 JRef:1XIQ93160003 T165 DrwNo: 142.22.1744.49257 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.138 D 999 360 VERT(CL): 0.256 D 990 240 HORZ(LL): 0.036 H - - HORZ(TL): 0.066 H - - Creep Factor: 2.0 Max TC CSI: 0.439 Max BC CSI: 0.523 Max Web CSI: 0.606 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1340 - / - / - / 640 / 77 / 121 H 1352 - / - / - / 645 / 79 / - Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 1.7 (Truss) H Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 137 -1624 C - D 147 -2651 B - C 136 -1621 D - E 147 -2651

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.32	13.12	3.16
20.84	0.00	20.39	1.32	13.12	3.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



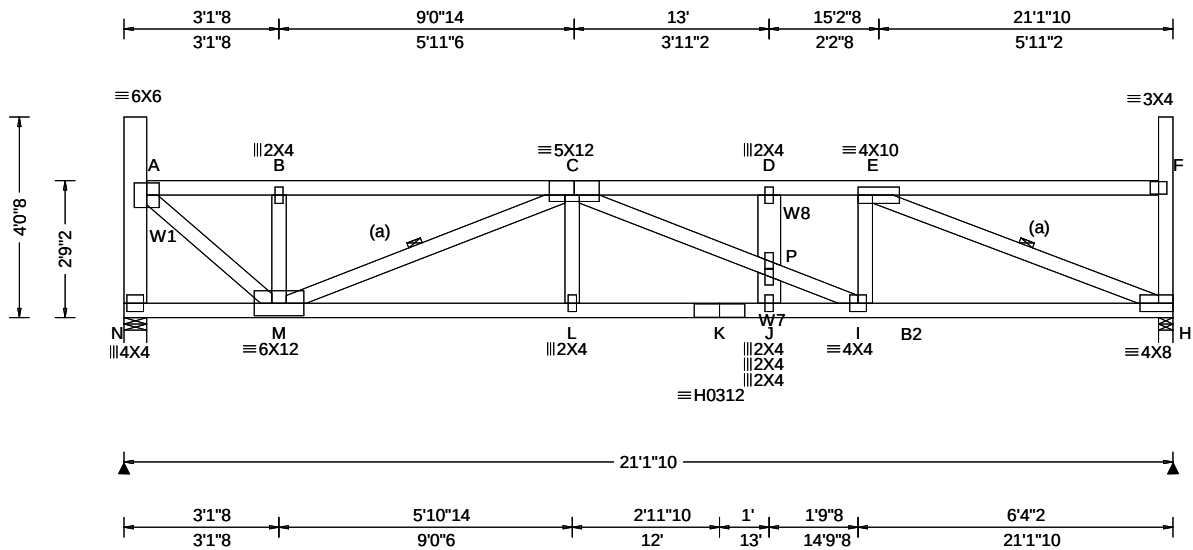
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Building 14

SEQN: 37825 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T03A	Cust: R 9316 JRef:1XIQ93160003 T168 DrwNo: 142.22.1744.51863 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.142 D 999 360 VERT(CL): 0.265 D 957 240 HORZ(LL): 0.040 H - - HORZ(TL): 0.075 H - - Creep Factor: 2.0 Max TC CSI: 0.440 Max BC CSI: 0.996 Max Web CSI: 0.600 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1342 - / - / - /640 /78 /120 H 1353 - / - / - /644 /80 - /- Non-Gravity Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 2.1 (Truss) H Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 135 -1601 C - D 146 -2612 B - C 135 -1598 D - E 146 -2612

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.28 11.74 2.83
20.84 0.00 20.39 1.28 11.74 2.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



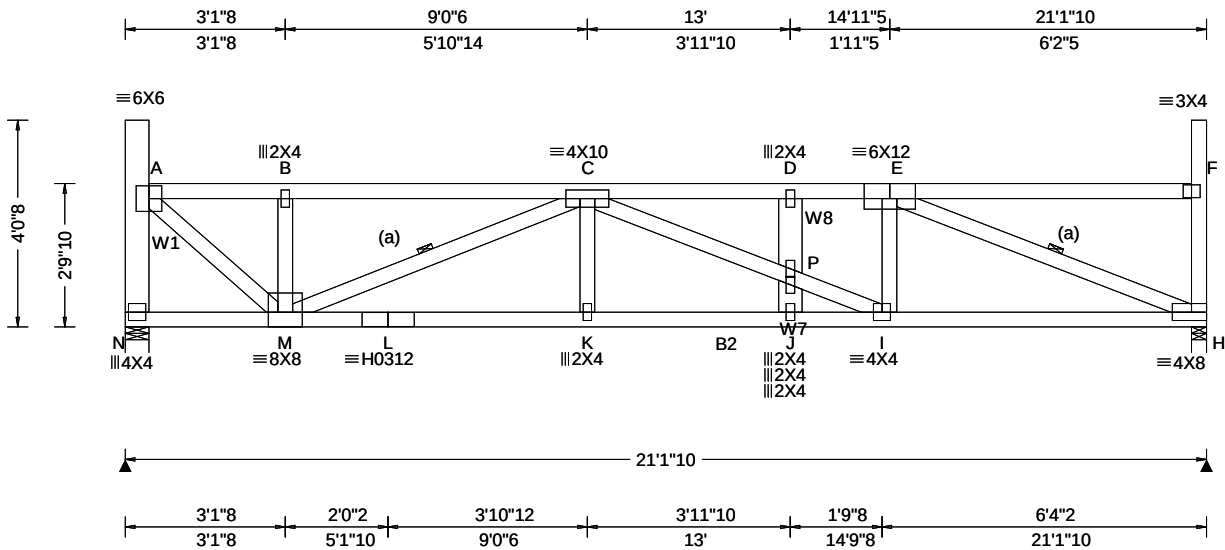
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Building 14

SEQN: 37826 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T04A	Cust: R 9316 JRef:1XIQ93160003 T134 DrwNo: 142.22.1744.55193 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.132 D 999 360 VERT(CL): 0.236 D 999 240 HORZ(LL): 0.036 H - - HORZ(TL): 0.067 H - - Creep Factor: 2.0 Max TC CSI: 0.440 Max BC CSI: 0.919 Max Web CSI: 0.592 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL N 1342 - / - / 639 / 78 / 119 H 1353 - / - / 644 / 80 / - Wind reactions based on MWFRS N Brg Wid = 5.5 Min Req = 2.1 (Truss) H Brg Wid = 3.5 Min Req = 1.7 (Truss) Bearings N & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 133 -1571 C - D 168 -2565 B - C 132 -1567 D - E 168 -2565

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2; B2 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7,
W8 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.39	1.24	10.35	2.50
20.84	0.00	20.39	1.24	10.35	2.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



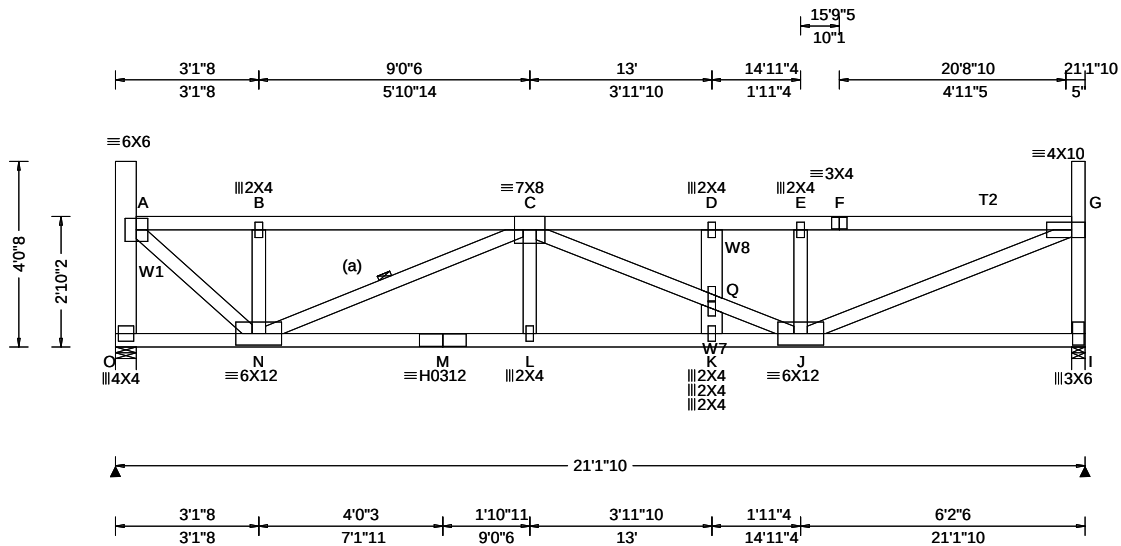
05/22/2022

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Building 14

SEQN: 37932 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T05A	Cust: R 9316 JRef:1XIQ93160003 T167 DrwNo: 142.22.1744.59533 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.153 D 999 360 VERT(CL): 0.283 D 895 240 HORZ(LL): 0.034 A - - HORZ(TL): 0.063 A - - Creep Factor: 2.0 Max TC CSI: 0.626 Max BC CSI: 0.730 Max Web CSI: 0.771 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity O 1435 -/- /- /- /121 -/ I 1602 -/- /- /- /245 -/ Wind reactions based on MWFRS O Brg Wid = 5.5 Min Req = 1.8 (Truss) I Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings O & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 144 -1659 D - E 444 -3020 B - C 144 -1656 E - F 444 -3017 C - D 444 -3020 F - G 444 -3025

Lumber Top chord: 2x4 SPF #1/#2; T2 2x4 SPF 2100f-1.8E; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1,W7, W8 2x6 SPF 1650f-1.5E;	Additional Notes Truss must be installed as shown with top chord up.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. N - M 3240 -340 L - K 3240 -340 M - L 3240 -340 K - J 3240 -340
Bracing (a) Continuous lateral restraint equally spaced on member.		Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. O - A 119 -1381 Q - J 0 -448 A - N 2014 -175 J - G 3143 -461 N - C 214 -1726 G - I 193 -1404 C - Q 0 -432
Special Loads ----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15) TC: From 70 plf at 0.46 to 70 plf at 20.84 BC: From 60 plf at 0.00 to 60 plf at 13.29 BC: From 30 plf at 13.29 to 30 plf at 21.14 BC: 144 lb Conc. Load at 13.29,15.07,17.07,19.07		

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.39 1.20 8.97 2.16
20.84 0.00 20.39 1.20 8.97 2.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

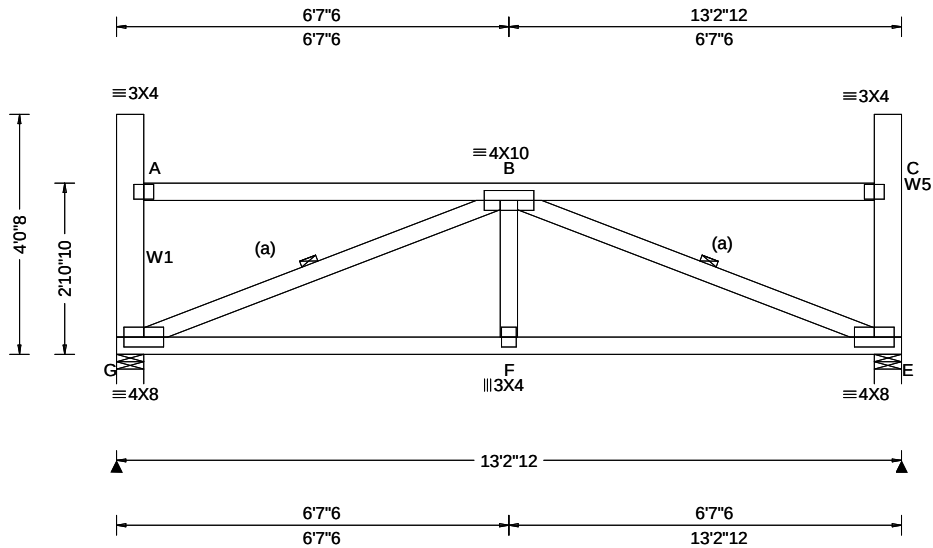


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Building 14

SEQN: 37827 FROM:	SPEC Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T06A	Cust: R 9316 JRef:1XIQ93160003 T149 DrwNo: 142.22.1745.01960 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: 20.0	Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL:	15.00	Speed: 109 mph	Pf: 15.4	Ce: 1.0	VERT(LL): 0.043 F 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL:	15.00	Enclosure: Closed	Lu: -	Cs: 1.00	VERT(CL): 0.080 F 999 240		G	828	/-	/-	/408	/59	/116	
BCDL:	15.00	Risk Category: II	Snow Duration: 1.15		HORZ(LL): 0.015 E - -		E	828	/-	/-	/408	/59	/-	
Des Ld:	65.00	EXP: B Kzt: NA			HORZ(TL): 0.028 E - -		Wind reactions based on MWFRS							
NCBCLL:	0.00	Mean Height: 22.55 ft	Building Code:		Creep Factor: 2.0		G Brg Wid = 5.5 Min Req = 1.5 (Truss)							
Soffit:	2.00	TCDL: 5.0 psf	IBC 2018		Max TC CSI: 0.546		E Brg Wid = 5.5 Min Req = 1.5 (Truss)							
Load Duration:	1.15	BCDL: 3.0 psf	TPI Std: 2014		Max BC CSI: 0.744		Bearings G & E are a rigid surface.							
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes		Max Web CSI: 0.315		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)				Maximum Bot Chord Forces Per Ply (lbs)							
		Loc. from endwall: Any	Plate Type(s):				Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18	WAVE		VIEW Ver: 21.02.00.1005.17		G - F		1311 -166		F - E		1311 -166	
		Wind Duration: 1.60												

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.16	7.59	1.83
12.77	0.00	20.00	1.16	7.59	1.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



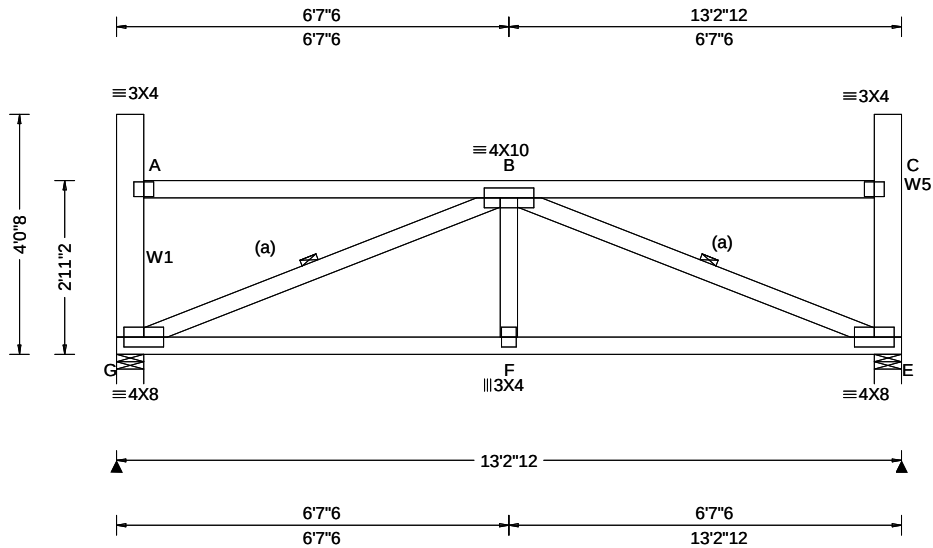
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Building 14

SEQN: 37828 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T07A	Cust: R 9316 JRef:1XIQ93160003 T146 DrwNo: 142.22.1745.04300 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.042 F 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.078 F 999 240	G	828	/-	/-	/407	/59	/115
BCDL:	15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.015 E - -	E	828	/-	/-	/407	/59	/-
Des Ld:	65.00	EXP: B Kzt: NA		HORZ(TL): 0.028 E - -	Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height: 22.59 ft	Building Code:	Creep Factor: 2.0	G Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Soffit:	2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.547	E Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Load Duration:	1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.741	Bearings G & E are a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.312	Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Bot Chord Forces Per Ply (lbs)						
		Loc. from endwall: Any	Plate Type(s):		Chords	Tens.Comp.	Chords	Tens.	Comp.		
		GCpi: 0.18			G - F	1291	-164	F - E	1291	-164	
		Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	20.00	1.11	6.20	1.50
12.77	0.00	20.00	1.11	6.20	1.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

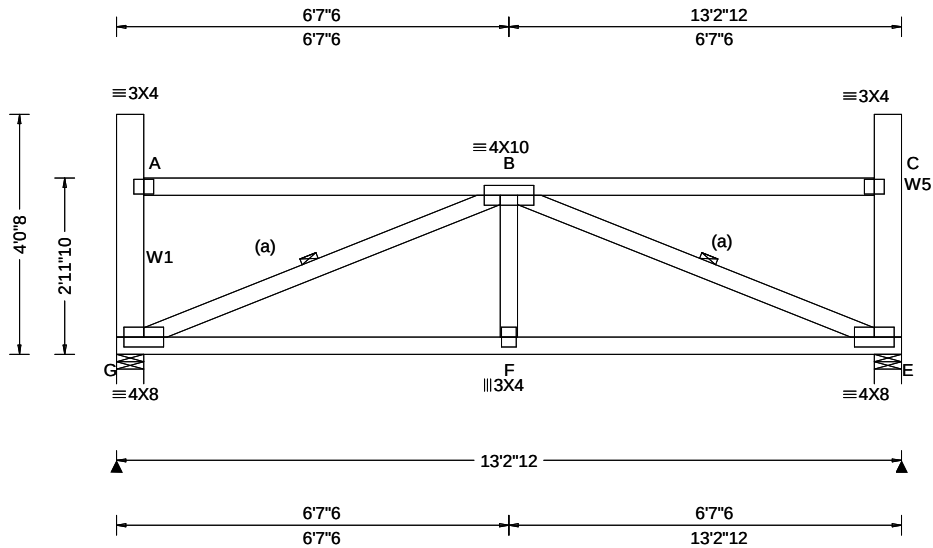


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Building 14

SEQN: 37830 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08A	Cust: R 9316 JRef:1XIQ93160003 T150 DrwNo: 142.22.1745.06667 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.041 F 999 360 VERT(CL): 0.076 F 999 240 HORZ(LL): 0.015 E - - HORZ(TL): 0.027 E - - Creep Factor: 2.0 Max TC CSI: 0.548 Max BC CSI: 0.738 Max Web CSI: 0.309 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 828 /- /- /407 /59 /114 E 828 /- /- /407 /59 /- Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Truss) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. G - F 1271 -162 F - E 1271 -162

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1,W5 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

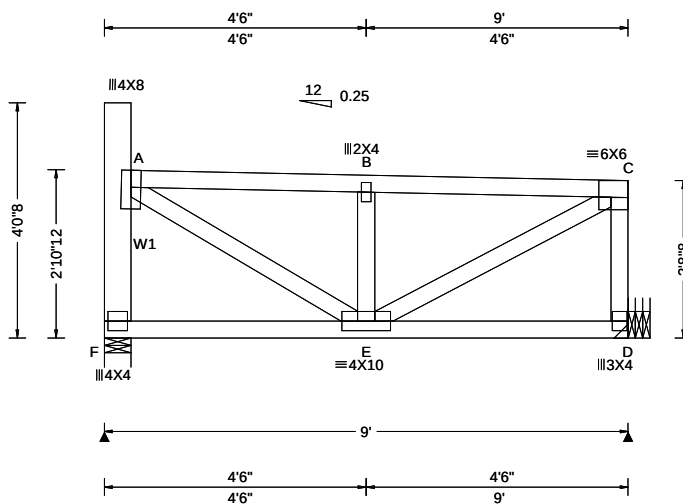
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Building 14

SEQN: 37943	MONO	Ply: 2	Job Number: JB-220700	Cust: R 9316 JRef:1Xf933160003 T7
FROM:		Qty: 3	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1745.09163
			Truss Label: T10	/ FK 05/22/2022

2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.018 B 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.034 B 999 240	F 1822 /- /- /- /185 /-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.005 A - -	D 1769 /- /- /- /152 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.009 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.80 ft	Building Code:	Creep Factor: 2.0	D Brg Wid = 5.5 Min Req = 1.5 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.116	F Brg Wid = - Min Req = -
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.851	Bearing F is a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.283	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 29.00 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17	A - B 99 -1040 B - C 99 -1040

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote

Nail Schedule: 0.128"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 3.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From	35 plf at	0.46 to	35 plf at	9.00
BC: From	60 plf at	0.00 to	60 plf at	2.33
BC: From	30 plf at	2.33 to	30 plf at	9.00
BC: 1371 lb Conc. Load at	2.33			
BC: 527 lb Conc. Load at	4.33, 6.33, 8.33			

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.16	7.63

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

Maximum Web Forces Per Ply (lbs)

Wabs	Tens.Comp.	Wabs	Tens. Comp.
F - A	54 -579	E - C	1152 -111
A - E	1076 -101	C - D	58 -611



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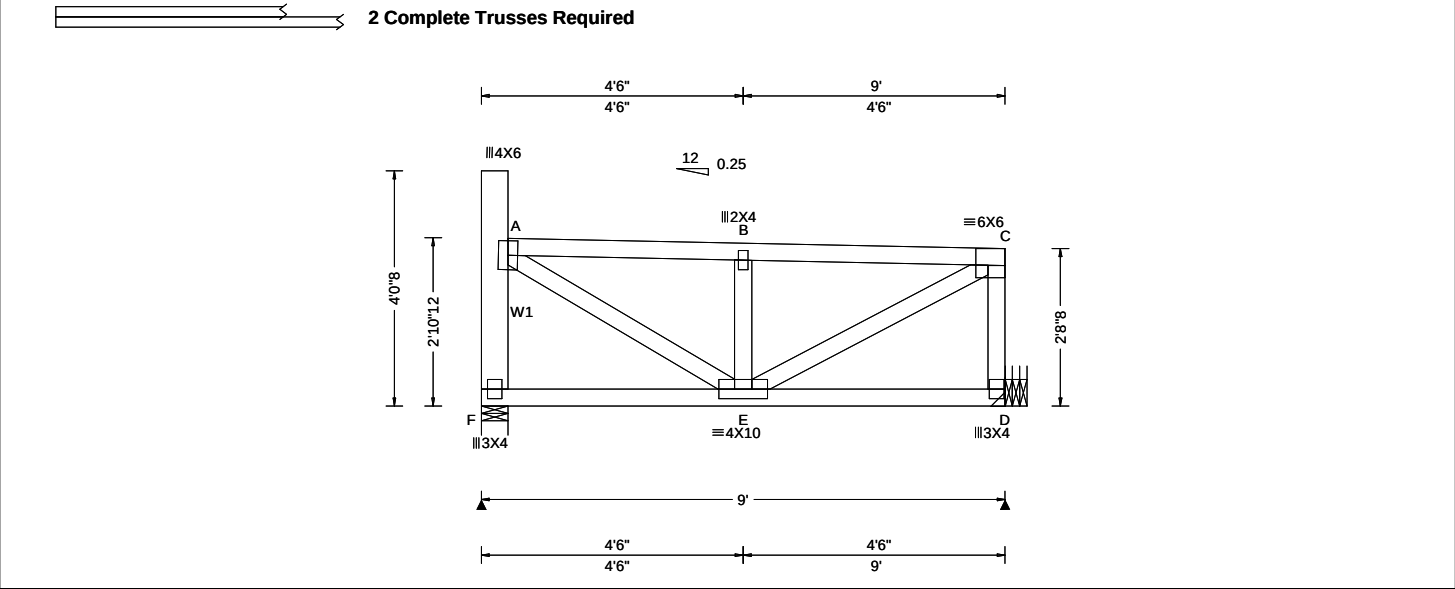
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37941 FROM:	MONO Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T10A	Cust: R 9316 JRef:1XIQ93160003 T8 DrwNo: 142.22.1745.38190 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	F	1371	/-	/-	/-	/180	/-
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.015 B 999 360	D	1611	/-	/-	/-	/150	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.028 B 999 240	Wind reactions based on MWFRS						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.004 A - -	F Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.007 A - -	D Brg Wid = - Min Req = -						
NCBCLL: 0.00	Mean Height: 21.80 ft	Building Code:	Creep Factor: 2.0	Bearing F is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.116	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.730	Maximum Top Chord Forces Per Ply (lbs)						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.231	Chords	Tens.Comp.	Chords	Tens. Comp.			
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	VIEW Ver: 21.02.00.1005.17	A - B	97	-857	B - C	97	-858	
	Loc. from endwall: not in 29.00 ft	Plate Type(s):								
	GCpi: 0.18	WAVE								
	Wind Duration: 1.60									

Lumber	Additional Notes	Maximum Web Forces Per Ply (lbs)
Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF #1/#2; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Truss must be installed as shown with top chord up.	Webs Tens.Comp. Webs Tens. Comp.
		F - A 52 -487 E - C 940 -108
		A - E 900 -97 C - D 56 -506

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)

TC: From 35 plf at 0.46 to 35 plf at 9.00
BC: From 60 plf at 0.00 to 60 plf at 2.33
BC: From 30 plf at 2.33 to 30 plf at 9.00
BC: 762 lb Conc. Load at 2.33
BC: 527 lb Conc. Load at 4.33, 6.33, 8.33

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	1.16	7.63 1.84

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.



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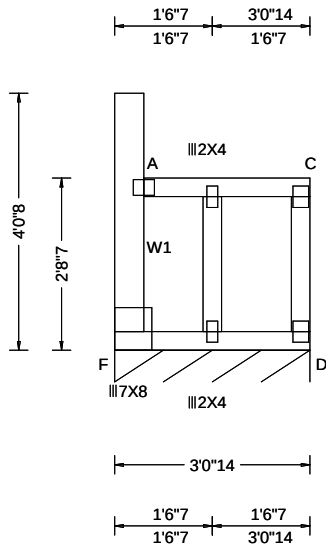
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37831 FROM:	GABL Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T11	Cust: R 9316 JRef:1XIQ93160003 T108 DrwNo: 142.22.1745.40563 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 360 VERT(CL): 0.009 A 999 240 HORZ(LL): 0.116 A - - HORZ(TL): 0.135 A - - Creep Factor: 2.0 Max TC CSI: 0.116 Max BC CSI: 0.324 Max Web CSI: 0.141 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				D*	120	/-	/-	/56	/4	/30
				Wind reactions based on MWFRS D Brg Wid = 36.9 Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.34 13.63 2.61
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, &
GABRST160118 for gable wind bracing and other
requirements.
Truss must be installed as shown with top chord up.



05/22/2022

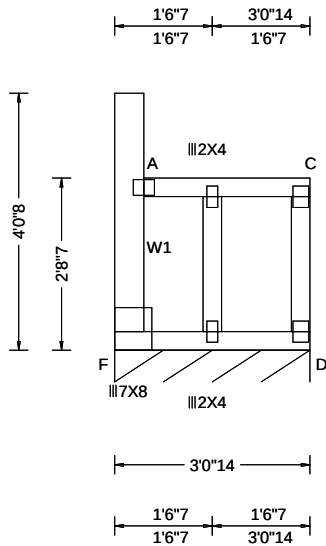
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37832 FROM:	GABL Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T11A	Cust: R 9316 JRef:1XIQ93160003 T3 DrwNo: 142.22.1745.43183 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 A 999 360 VERT(CL): 0.009 A 999 240 HORZ(LL): 0.116 A - - HORZ(TL): 0.135 A - - Creep Factor: 2.0 Max TC CSI: 0.116 Max BC CSI: 0.324 Max Web CSI: 0.141 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				D*	120	/-	/-	/56	/4	/30
				Wind reactions based on MWFRS D Brg Wid = 36.9 Min Req = - Bearing F is a rigid surface. Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.34 13.63 2.61
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

See DWGS A11530ENC160118, GBLLETIN0118, &
GABRST160118 for gable wind bracing and other
requirements.
Truss must be installed as shown with top chord up.



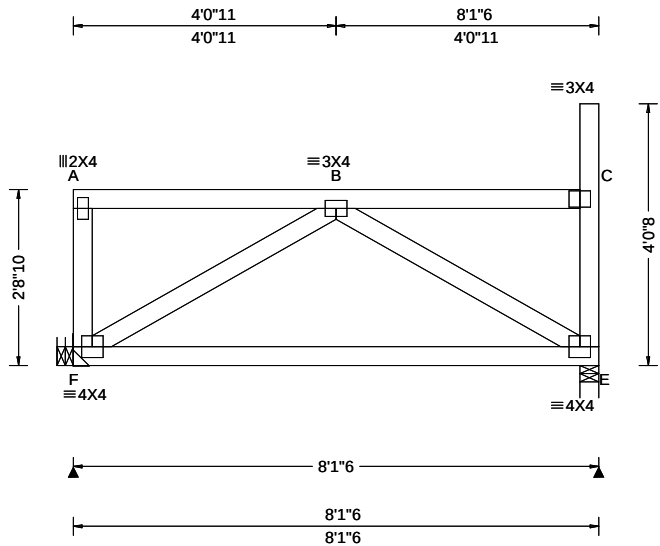
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Building 14

SEQN: 37833 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T12	Cust: R 9316 JRef:1XIQ93160003 T210 DrwNo: 142.22.1745.45580 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	F	527	/-	/-	/270	/43	/92
BCDL:	15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	E	507	/-	/-	/255	/45	/-
Des Ld:	65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height: 21.72 ft	Building Code:	Creep Factor: 2.0	F Brg Wid = - Min Req = -						
Soffit:	2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.217	E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Load Duration:	1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.611	Bearing E is a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.204	Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
		Loc. from endwall: Any	Plate Type(s):								
		GCpi: 0.18									
		Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.32 13.12 3.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



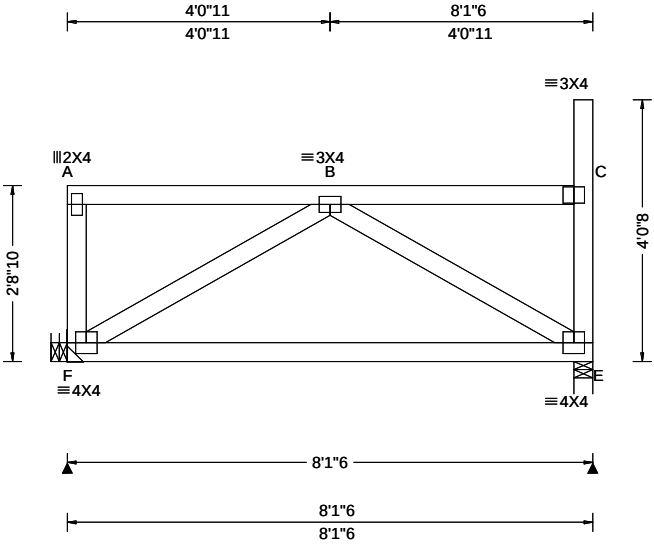
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Building 14

SEQN: 37834 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T12A	Cust: R 9316 JRef:1XIQ93160003 T5 DrwNo: 142.22.1745.47920 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	F	527	/-	/-	/270	/43	/92
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	E	507	/-	/-	/255	/45	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	Wind reactions based on MWFRS						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	F Brg Wid = - Min Req = -						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
NCBCLL: 0.00	Mean Height: 21.72 ft	Building Code:	Creep Factor: 2.0	Bearing E is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.217	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.611							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.204							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.32 13.12 3.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



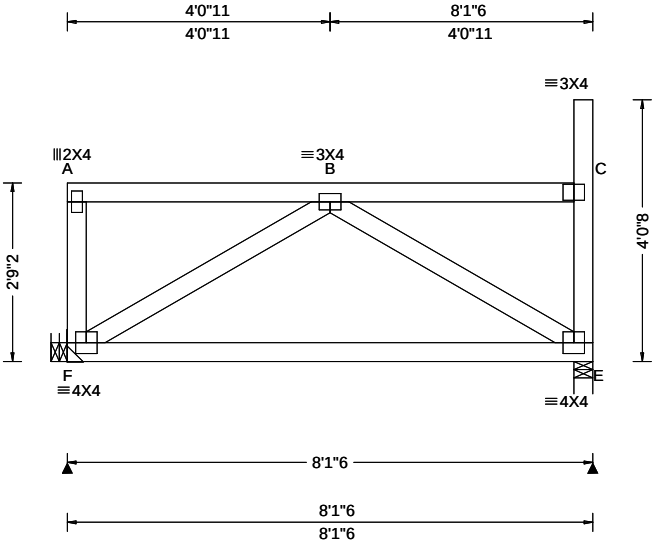
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Building 14

SEQN: 37835 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T13	Cust: R 9316 JRef:1XIQ93160003 T126 DrwNo: 142.22.1745.50243 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	F	527	/-	/-	/270	/44	/91
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	E	507	/-	/-	/255	/45	/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 B 999 240	Wind reactions based on MWFRS						
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	F Brg Wid = - Min Req = -						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.003 E - -	E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
NCBCLL: 0.00	Mean Height: 21.76 ft	Building Code:	Creep Factor: 2.0	Bearing E is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.217	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.611							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.204							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
	Loc. from endwall: Any	Plate Type(s):								
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17							
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.28 11.74 2.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



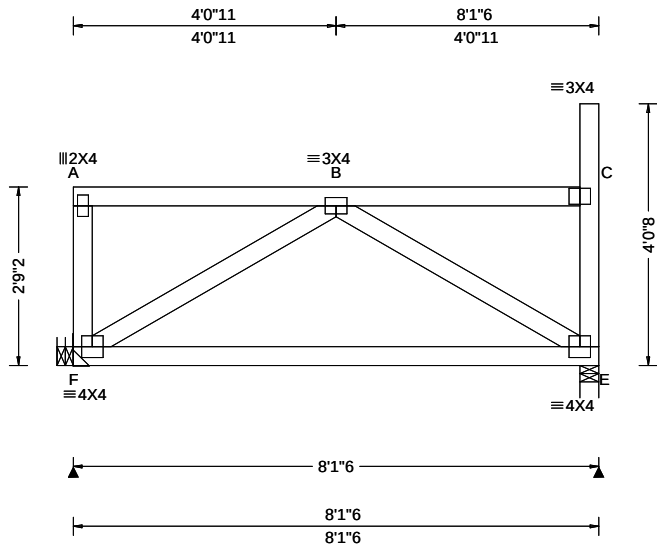
05/22/2022

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Building 14

SEQN: 37836 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T13A	Cust: R 9316 JRef:1XIQ93160003 T2 DrwNo: 142.22.1745.52550 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity			Non-Gravity			
TCLL:	20.00	Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.004 B 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL:	15.00	Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.008 B 999 240		F	527	/-	/-	/270	/44	/91
BCLL:	15.00	Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.002 E - -		E	507	/-	/-	/255	/45	/-
BCDL:	15.00	EXP: B Kzt: NA				HORZ(TL): 0.003 E - -		Wind reactions based on MWFRS						
Des Ld:	65.00	Mean Height: 21.76 ft		Building Code:		Creep Factor: 2.0		F Brg Wid = - Min Req = -						
NCBCLL:	0.00	TCDL: 5.0 psf		IBC 2018		Max TC CSI: 0.217		E Brg Wid = 3.5 Min Req = 1.5 (Truss)						
Soffit:	2.00	BCDL: 3.0 psf		TPI Std: 2014		Max BC CSI: 0.611		Bearing E is a rigid surface.						
Load Duration:	1.15	MWFRS Parallel Dist: 0 to h/2		Rep Fac: Yes		Max Web CSI: 0.204		Members not listed have forces less than 375#						
Spacing:	24.0 "	C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)										
		Loc. from endwall: Any		Plate Type(s):										
		GCpi: 0.18		WAVE		VIEW Ver: 21.02.00.1005.17								
		Wind Duration: 1.60												

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.28 11.74 2.83
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

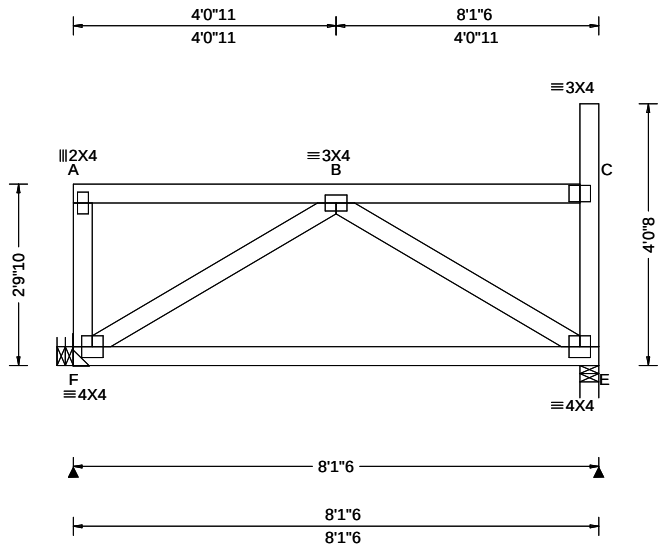
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37837 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T14	Cust: R 9316 JRef:1XIQ93160003 T130 DrwNo: 142.22.1745.54800 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)									
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in	loc L/def L/#	Gravity			Non-Gravity					
TCDL:	15.00	Speed:	109 mph	Pf: 15.4		Ce: 1.0	VERT(LL):	0.004 B	999	360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure:	Closed		Lu: -	Cs: 1.00	VERT(CL):	0.007 B	999	240	F	527	/-	/-	/270	/44	/91
BCDL:	15.00	Risk Category:	II		Snow Duration:	1.15	HORZ(LL):	0.002 E	-	-	E	507	/-	/-	/255	/45	/-
Des Ld:	65.00	EXP:	B Kzt: NA				HORZ(TL):	0.003 E	-	-	Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height:	21.80 ft		Building Code:		Creep Factor:	2.0			F	Brg Wid = - Min Req = -					
Soffit:	2.00	TCDL:	5.0 psf		IBC 2018		Max TC CSI:	0.218			E	Brg Wid = 3.5 Min Req = 1.5 (Truss)					
Load Duration:	1.15	BCDL:	3.0 psf		TPI Std:	2014	Max BC CSI:	0.610			Bearing E is a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist:	0 to h/2		Rep Fac:	Yes	Max Web CSI:	0.203			Members not listed have forces less than 375#						
		C&C Dist a:	3.00 ft		FT/RT:	20(0)/10(0)											
		Loc. from endwall:	Any		Plate Type(s):												
		GCpi:	0.18														
		Wind Duration:	1.60		WAVE												
														</			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

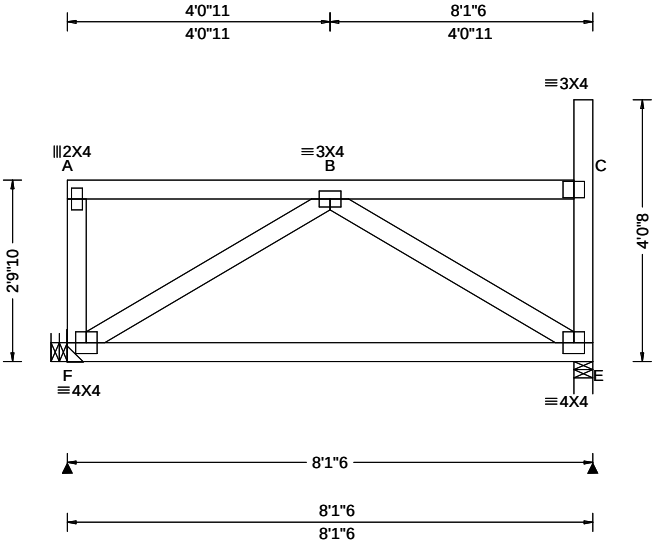
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37838 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T14A	Cust: R 9316 JRef:1XIQ93160003 T4 DrwNo: 142.22.1745.57430 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.004 B 999 360	F	527	/-	/-	/270	/44	/91
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.007 B 999 240	E	507	/-	/-	/255	/45	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.002 E - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.003 E - -	F Brg Wid = - Min Req = -						
	Creep Factor: 2.0		E Brg Wid = 3.5 Min Req = 1.5 (Truss)							
NCBCLL: 0.00	Mean Height: 21.80 ft	IBC 2018	Max TC CSI: 0.218	Bearing E is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.610	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	Rep Fac: Yes	Max Web CSI: 0.203							
	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)								
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Plate Type(s):								
	Loc. from endwall: Any	WAVE	VIEW Ver: 21.02.00.1005.17							
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
7.82 0.00 20.00 1.24 10.35 2.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

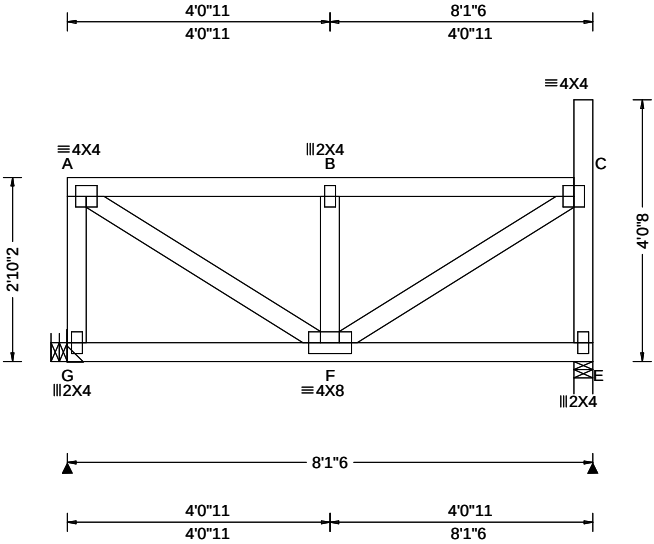
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37935 FROM:	FLAT Ply: 1 Qty: 3	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T15	Cust: R 9316 JRef:1XIQ93160003 T124 DrwNo: 142.22.1746.05160 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
				Gravity			Non-Gravity		
				Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	G	762	-/-	-/-	-/-	/168 -/-
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.012 B 999 360	E	607	-/-	-/-	-/-	/111 -/-
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.021 B 999 240	Wind reactions based on MWFRS					
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): -0.002 C - -	G Brg Wid = - Min Req = -					
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.004 C - -	E Brg Wid = 3.5 Min Req = 1.5 (Truss)					
NCBCLL: 0.00	Mean Height: 21.84 ft	Building Code:	Creep Factor: 2.0	Bearing E is a rigid surface.					
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.239	Members not listed have forces less than 375#					
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.340	Maximum Top Chord Forces Per Ply (lbs)					
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.190	Chords	Tens.Comp.	Chords	Tens. Comp.		
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	VIEW Ver: 21.02.00.1005.17	A - B	135	-667	B - C	135	-671
	Loc. from endwall: Any	Plate Type(s):							
	GCpi: 0.18	WAVE							
	Wind Duration: 1.60								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.00 to 70 plf at 7.82
BC: From 30 plf at 0.00 to 30 plf at 8.11
BC: 144 lb Conc. Load at 0.27, 2.05, 4.05, 6.05

Loading

Drifting snow load has been considered for only
in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	7.82	0.00	20.00	1.20	8.97 2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached
spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

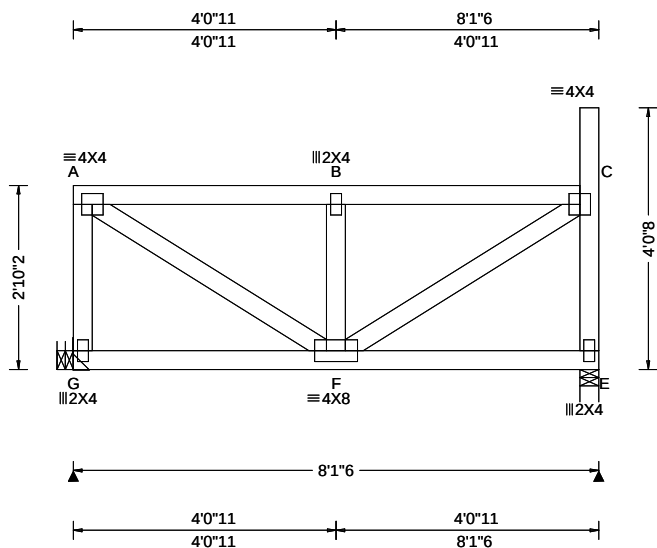


05/22/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37936	FLAT	Ply: 1	Job Number: JB-220700	Cust: R 9316 JRef:1XIQ93160003 T12
FROM:		Qty: 1	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1746.07693
			Truss Label: T15A	/ FK 05/22/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)											
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in	loc L/defl	L/#	Gravity			Non-Gravity						
TCDL:	15.00	Speed:	109 mph	Pf: 15.4		Ce: 1.0	VERT(LL):	0.012	B	999	360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL:	15.00	Enclosure:	Closed	Lu: -		Cs: 1.00	VERT(CL):	0.021	B	999	240	G	762	/-	/-	/-	/172	/-	
BCDL:	15.00	Risk Category:	II	Snow Duration:	1.15		HORZ(LL):	-0.002	C	-	-	E	607	/-	/-	/-	/114	/-	
		EXP:	B Kzt: NA				HORZ(TL):	0.004	C	-	-	Wind reactions based on MWFRS							
Des Ld:	65.00	Mean Height:	22.51 ft			Building Code:	Creep Factor:	2.0		G Brg Wid = - Min Req = -									
NCBCLL:	0.00	TCDL:	5.0 psf			IBC 2018	Max TC CSI:	0.239		E Brg Wid = 3.5 Min Req = 1.5 (Truss)									
Soffit:	2.00	BCDL:	3.0 psf			TPI Std: 2014	Max BC CSI:	0.340		Bearing E is a rigid surface.									
Load Duration:	1.15	MWFRS Parallel Dist:	0 to h/2			Rep Fac: Varies by Ld Case	Max Web CSI:	0.190		Members not listed have forces less than 375#									
Spacing:	24.0 "	C&C Dist a:	3.00 ft			FT/RT:20(0)/10(0)				Maximum Top Chord Forces Per Ply (lbs)									
		Loc. from endwall:	Any			Plate Type(s):						Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi:	0.18																
		Wind Duration:	1.60			WAVE						A - B		138 -667		B - C		138 -671	
								VIEW Ver: 21.02.00.1005.17											

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 70 plf at 0.00 to 70 plf at 7.82
 BC: From 30 plf at 0.00 to 30 plf at 8.11
 BC: 144 lb Conc. Load at 0.27 2.05 4.05 6.05

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
7.82	0.00	20.00	1.20	8.97	2.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



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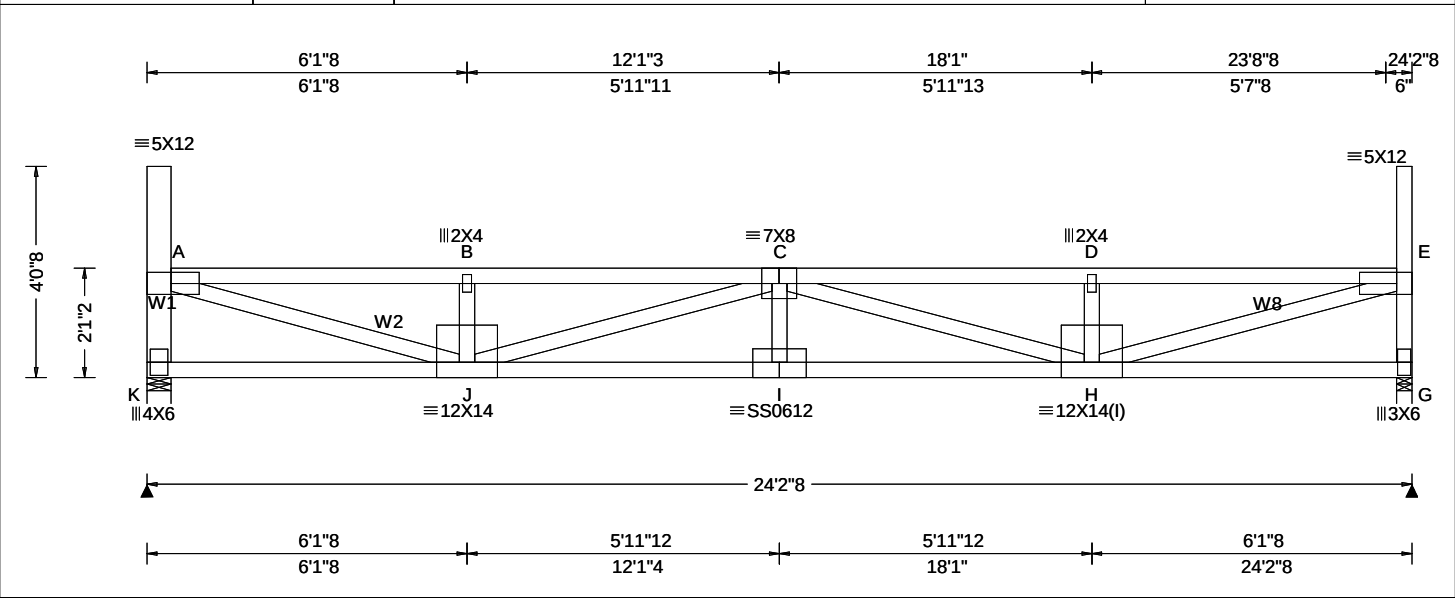
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North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37839 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T17	Cust: R 9316 JRef:1XIQ93160003 T127 DrwNo: 142.22.1746.10180 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCCL: 15.00 BCCL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.09 ft TCCL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.389 I 746 360 VERT(CL): 0.723 I 401 240 HORZ(LL): 0.061 A - - HORZ(TL): 0.113 A - - Creep Factor: 2.0 Max TC CSI: 0.954 Max BC CSI: 0.730 Max Web CSI: 0.868 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 - / - / 731 / 78 / 129 G 1553 - / - / 737 / 80 / - Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 237 - 4188 C - D 229 - 4194 B - C 237 - 4183 D - E 230 - 4199

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; W2, W8 2x4 SPF 2100f-1.8E;

Plating Notes
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.95 33.87 4.20
23.92 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.39" DL: 0.33". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

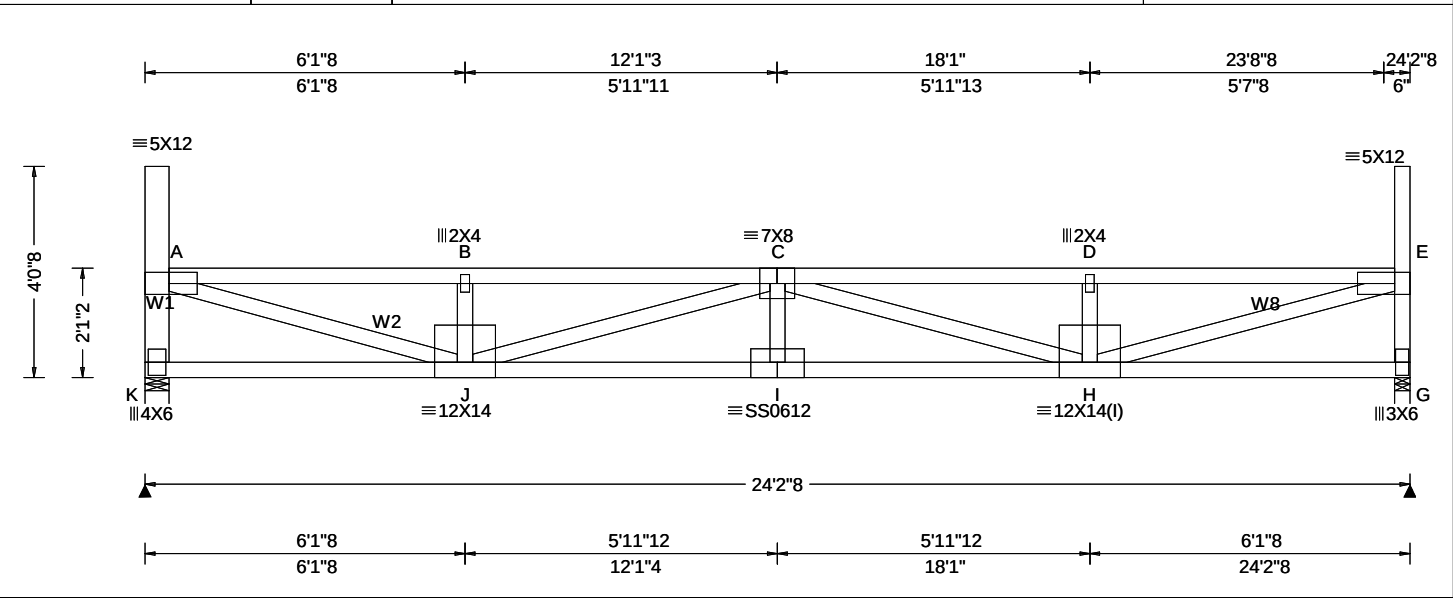
Additional Notes
Truss must be installed as shown with top chord up.



05/22/2022
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North Building, 4th Floor
Glenview, IL 60025

SEQN: 37840	FLAT	Ply: 1	Job Number: JB-220700	Cust: R 9316 JRef:1XIQ93160003 T17
FROM:		Qty: 1	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1746.12860
			Truss Label: T17A	/ FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.389 I 746 360	Loc R+ / R- / Rh / Rw / U / RL
IBCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.723 I 401 240	K 1541 /- /- /731 /78 /129
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.061 A - -	G 1553 /- /- /737 /80 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.113 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.09 ft	Building Code:	Creep Factor: 2.0	K Brg Wid = 5.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.954	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.730	Bearings K & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.868	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	
				A - B 237 -4188 C - D 229 -4194
				R - C 237 -4192 D - E 229 -4190

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; W2,
W8 2x4 SPF 2100f-1.8E;

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.95	33.87	4.20
23.92	0.00	23.46	1.95	33.87	4.20

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.39" DL: 0.33". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



05/22/2022

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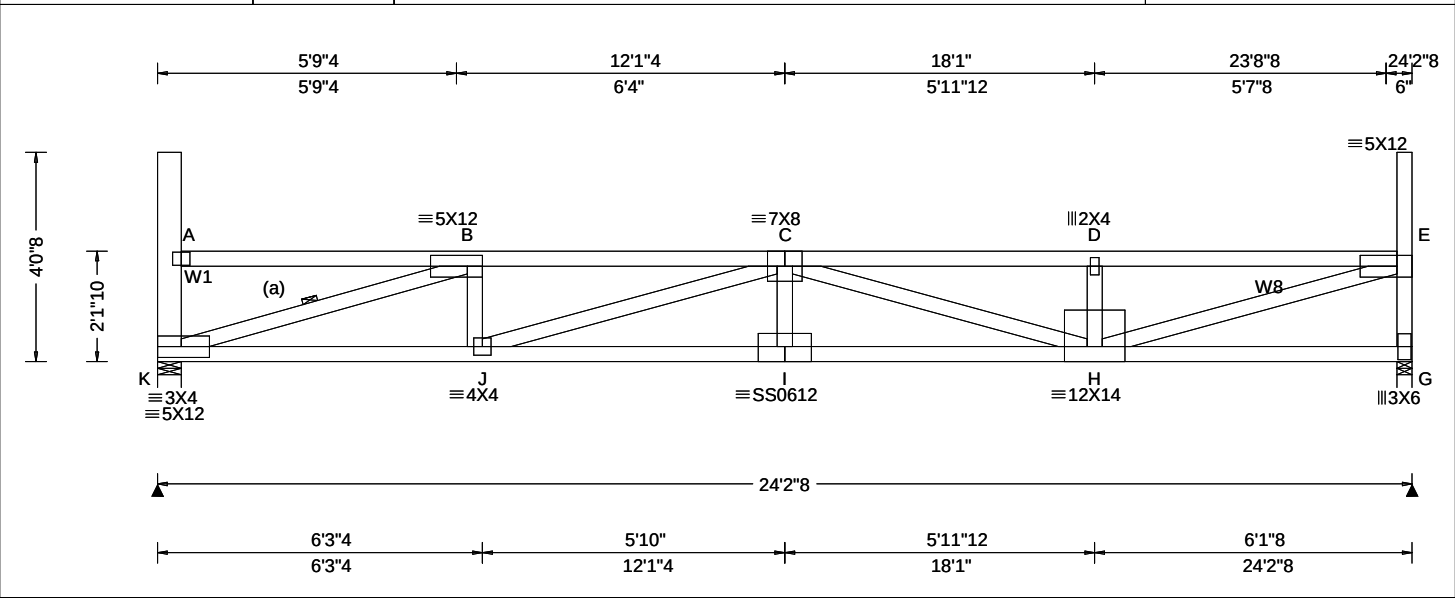
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Glenview, IL 60025

Building 14

SEQN: 37950 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T18	Cust: R 9316 JRef:1XIQ93160003 T125 DrwNo: 142.22.1746.15680 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.372 I 780 360 VERT(CL): 0.692 I 419 240 HORZ(LL): 0.061 A - - HORZ(TL): 0.114 A - - Creep Factor: 2.0 Max TC CSI: 0.939 Max BC CSI: 0.711 Max Web CSI: 0.846 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1542 /- /- /731 /78 /127 G 1553 /- /- /737 /80 /- Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 229 - 4117 D - E 225 - 4107 C - D 224 - 4102

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.91	32.49	4.38
23.92	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.37" DL: 0.32". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

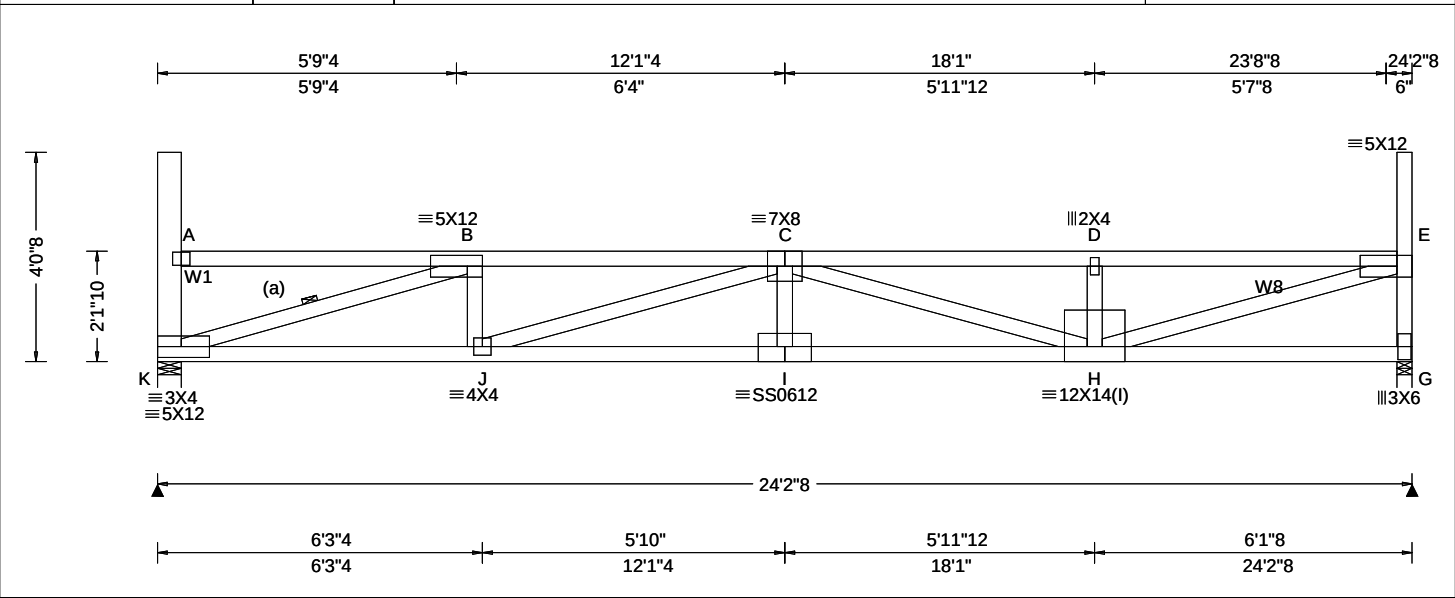
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Glenview, IL 60025

Building 14

SEQN: 37956 FROM:	FLAT Qty: 1	Ply: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T18A	Cust: R 9316 JRef:1XIQ93160003 T28 DrwNo: 142.22.1746.18560 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity			Non-Gravity				
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.393 I 738 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.713 I 407 240		K	1588	/-	/-	/731	/78	/127	
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.065 A - -		G	1600	/-	/-	/737	/80	/-	
Des Ld: 65.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS		HORZ(TL): 0.118 A - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height: 21.14 ft				Creep Factor: 2.0		K Brg Wid = 5.5 Min Req = 2.0 (Truss)							
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.954		G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.727		Bearings K & G are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2				Max Web CSI: 0.873		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft						Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall: Any						Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18						B - C		229 - 4242		D - E		225 - 4234	
		Wind Duration: 1.60						C - D		224 - 4228					
						VIEW Ver: 21.02.00.1005.17									

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;
W8 2x4 SPF 2100f-1.8E;

Additional Notes
Truss must be installed as shown with top chord up.

Bracing
(a) Continuous lateral restraint equally spaced on member.

Plating Notes
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.91 32.49 4.38
23.92 0.00 23.46 1.91 32.49 4.38
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.39" DL: 0.32". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

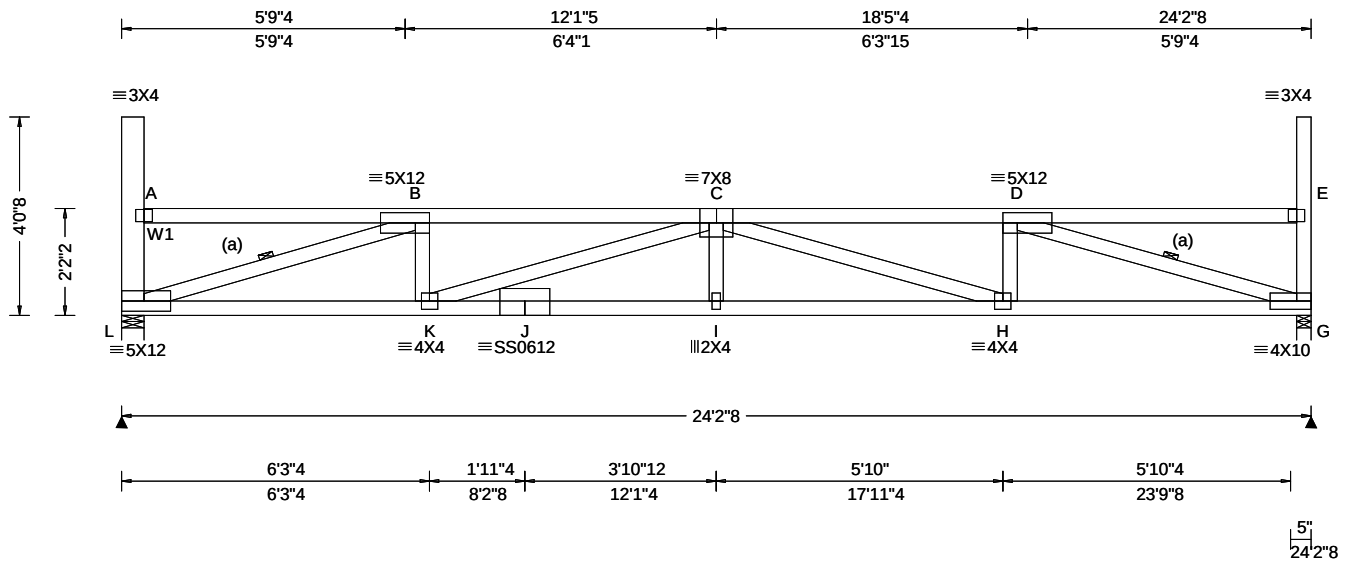


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North Building, 4th Floor
Glenview, IL 60025

SEQN: 37843	FLAT	Ply: 1	Job Number: JB-220700	Cust: R 9316 JRef:1X1Q93160003 T115
FROM:		Qty: 1	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1746.21343
			Truss Label: T19	/ FK 05/22/2022

[illegible]

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



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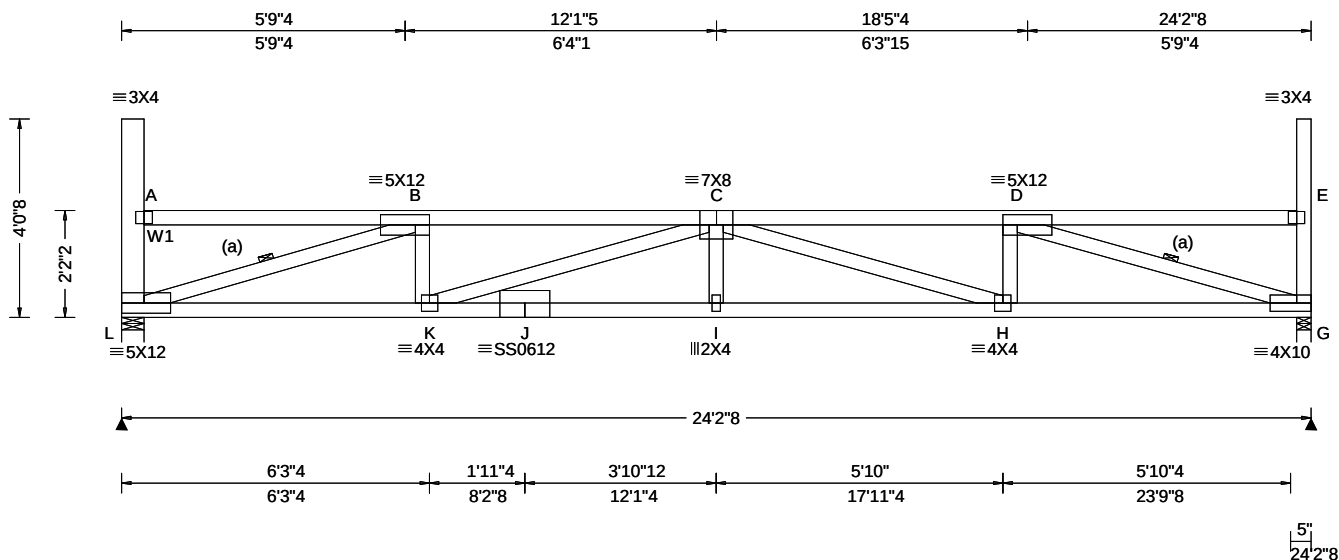
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North Building, 4th Floor
Glenview, IL 60025

SEQN: 37844	FLAT	Ply: 1	Job Number: JB-220700	Cust: R 9316 JRef:1XIQ93160003 T22
FROM:		Qty: 1	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1746.23877
			Truss Label: T19A	/ FK 05/22/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II			PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL:	15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0			VERT(LL): 0.356 I 817 360		Loc	R+	/R-	/Rh	/Rw	/U	/RL	
BCLL:	15.00	Enclosure: Closed	Lu: - Cs: 1.00			VERT(CD/L): 0.661 I 439 240		L	1542	/-	/-	/731	/78	/126	
BCDL:	15.00	Risk Category: II	Snow Duration: 1.15			HORZ(LL): 0.075 G - -		G	1553	/-	/-	/737	/80	/-	
Des Ld:	65.00	EXP: B Kzt: NA				HORZ(TL): 0.139 G - -		Wind reactions based on MWFRS							
NCBCLL:	0.00	Mean Height: 21.18 ft		Building Code:		Creep Factor: 2.0		L Brg Wid = 5.5 Min Req = 2.0 (Truss)							
Soffit:	2.00	TCDL: 5.0 psf		IBC 2018		Max TC CSI: 0.703		G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration:	1.15	BCDL: 3.0 psf		TPI Std: 2014		Max BC CSI: 0.691		Bearings L & G are a rigid surface.							
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2		Rep Fac: Yes		Max Web CSI: 0.853		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)				Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall: Any		Plate Type(s):				Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18													
		Wind Duration: 1.60		WAVE, 18SS		VIEW Ver: 21.02.00.1005.17		B - C		225 - 4029		C - D		216 - 4040	

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.86	31.10	4.58
23.92	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



05/22/2022

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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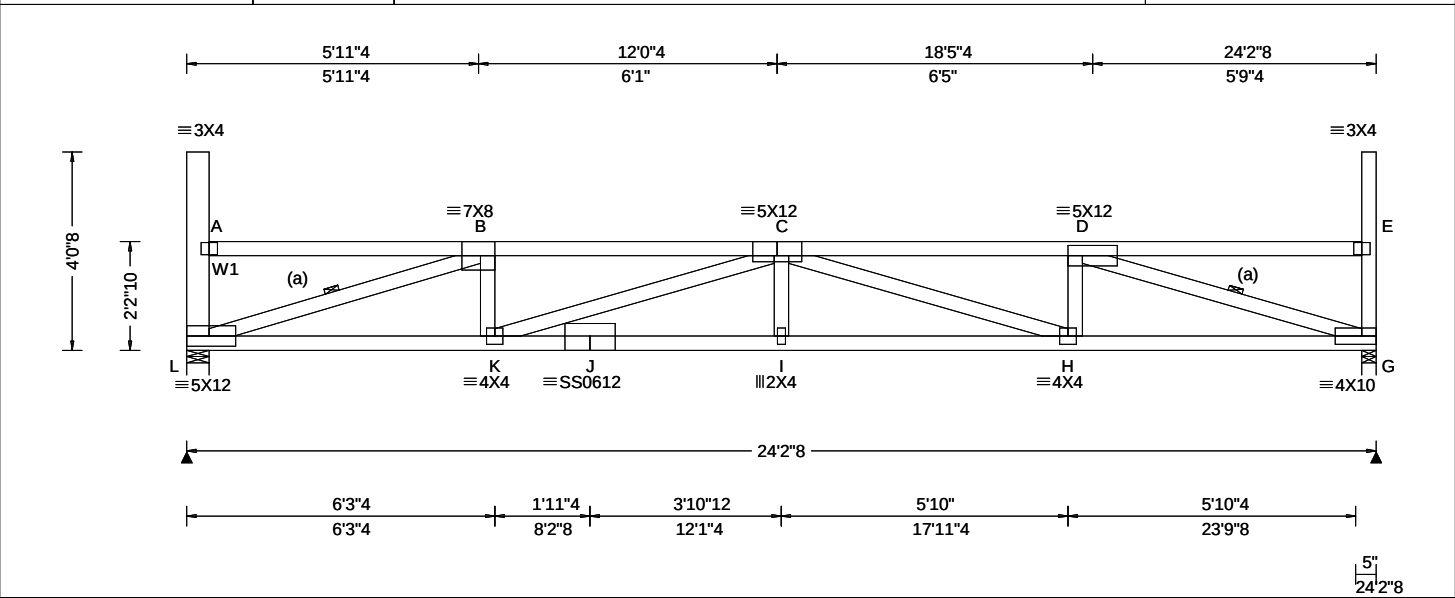
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37845 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T20	Cust: R 9316 JRef:1XIQ93160003 T116 DrwNo: 142.22.1746.26870 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)							
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/defl L/#		Gravity			Non-Gravity				
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.341 I 851 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.634 I 457 240		L	1542	/-	/-	/731	/78	/124	
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.073 G - -		G	1553	/-	/-	/737	/80	/-	
Des Ld: 65.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS		HORZ(TL): 0.137 G - -		Wind reactions based on MWFRS							
NCBCLL: 0.00		Mean Height: 21.22 ft				Creep Factor: 2.0		L Brg Wid = 5.5 Min Req = 2.0 (Truss)							
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.680		G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.681		Bearings L & G are a rigid surface.							
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2				Max Web CSI: 0.839		Members not listed have forces less than 375#							
		C&C Dist a: 3.00 ft						Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall: Any						Chords		Tens.Comp.		Chords		Tens. Comp.	
		GCpi: 0.18													
		Wind Duration: 1.60						VIEW Ver: 21.02.00.1005.17							
								B - C		221 - 3945		C - D		212 - 3955	

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E; Bracing	Maximum Bot Chord Forces Per Ply (lbs)							
	<u>Chords</u>		<u>Tens.Comp.</u>		<u>Chords</u>		<u>Tens. Comp.</u>	
	L - K	3831	-347	I - H	5076	-292		
	K - J	5076	-292	H - G	3840	-194		
	J - I	5076	-292					

(a) Continuous lateral restraint equally spaced on member.						Maximum Web Forces Per Ply (lbs)				
Loading						Webs	Tens.Comp.	Webs	Tens.	Comp.
Drifting snow load has been considered for only in plane loading as follows:						L - B	224 - 3927	C - H	132	-1180
Location	Lu1	Lu2	Height	Pd	W	B - K	760 - 1	H - D	774	-1
						K - C	133 - 1191	D - G	222	-3980

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.82 29.72 4.79
23.92 0.00 23.46 1.82 29.72 4.79
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



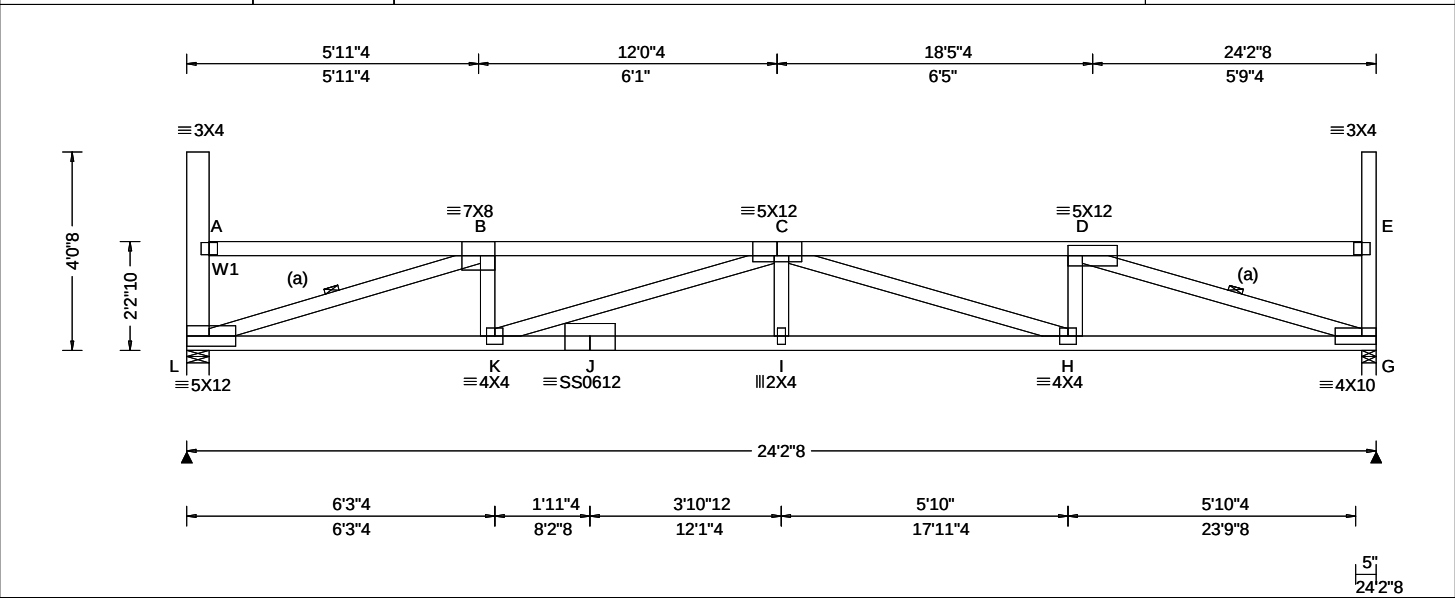
05/22/2022

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Building 14

SEQN: 37846 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T20A	Cust: R 9316 JRef:1XIQ93160003 T16 DrwNo: 142.22.1746.29637 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.341 I 851 360 VERT(CL): 0.634 I 457 240 HORZ(LL): 0.073 G - - HORZ(TL): 0.137 G - - Creep Factor: 2.0 Max TC CSI: 0.680 Max BC CSI: 0.681 Max Web CSI: 0.839 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /78 /124 G 1553 /- /- /737 /80 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 221 - 3945 C - D 212 - 3955

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.82 29.72 4.79
23.92 0.00 23.46 1.82 29.72 4.79
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



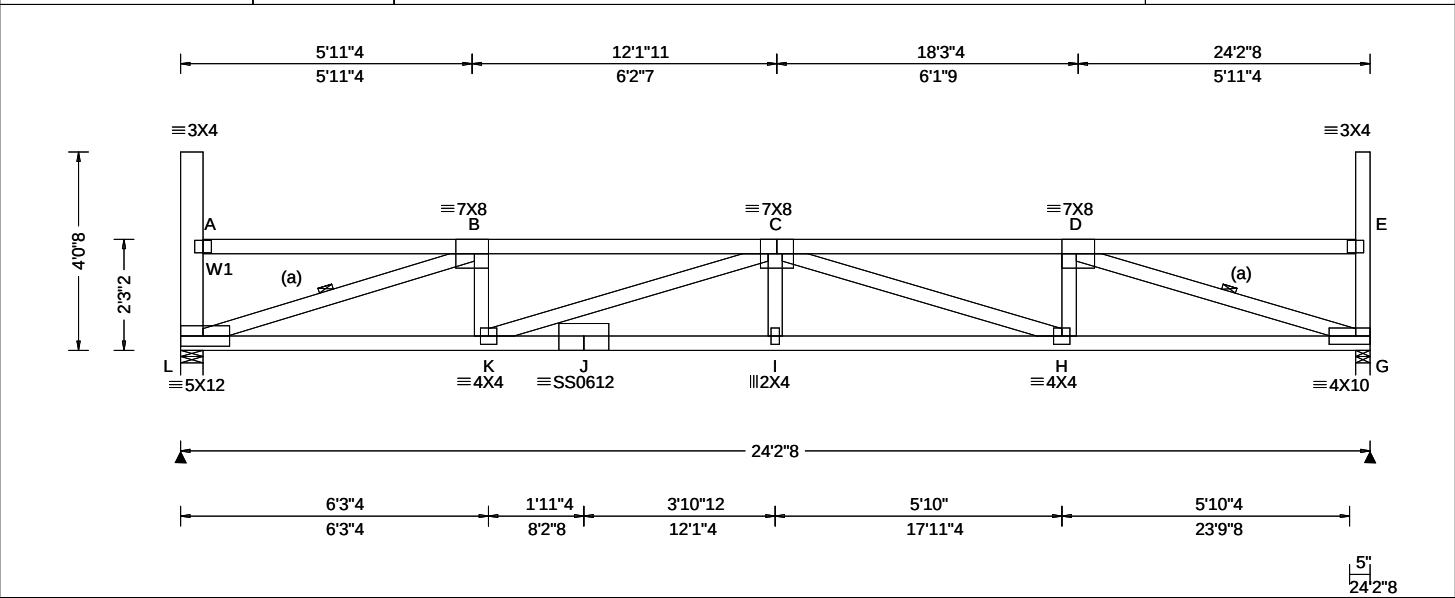
05/22/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37847 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T21	Cust: R 9316 JRef:1XIQ93160003 T117 DrwNo: 142.22.1746.32250 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.327 I 887 360 VERT(CL): 0.608 I 477 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.134 G - - Creep Factor: 2.0 Max TC CSI: 0.656 Max BC CSI: 0.671 Max Web CSI: 0.824 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1540 /- /- /730 /78 /123 G 1552 /- /- /737 /80 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -3860 C - D 187 -3870

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3748 -340 I - H 4963 -286 K - J 4963 -286 H - G 3757 -182 J - I 4963 -286
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Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 219 -3851 C - H 128 -1153 B - K 759 -1 H - D 773 0 K - C 129 -1164 D - G 217 -3902
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 23.46 1.78 28.34 5.03 23.92 0.00 23.46 1.78 28.34 5.03 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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Deflection Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.
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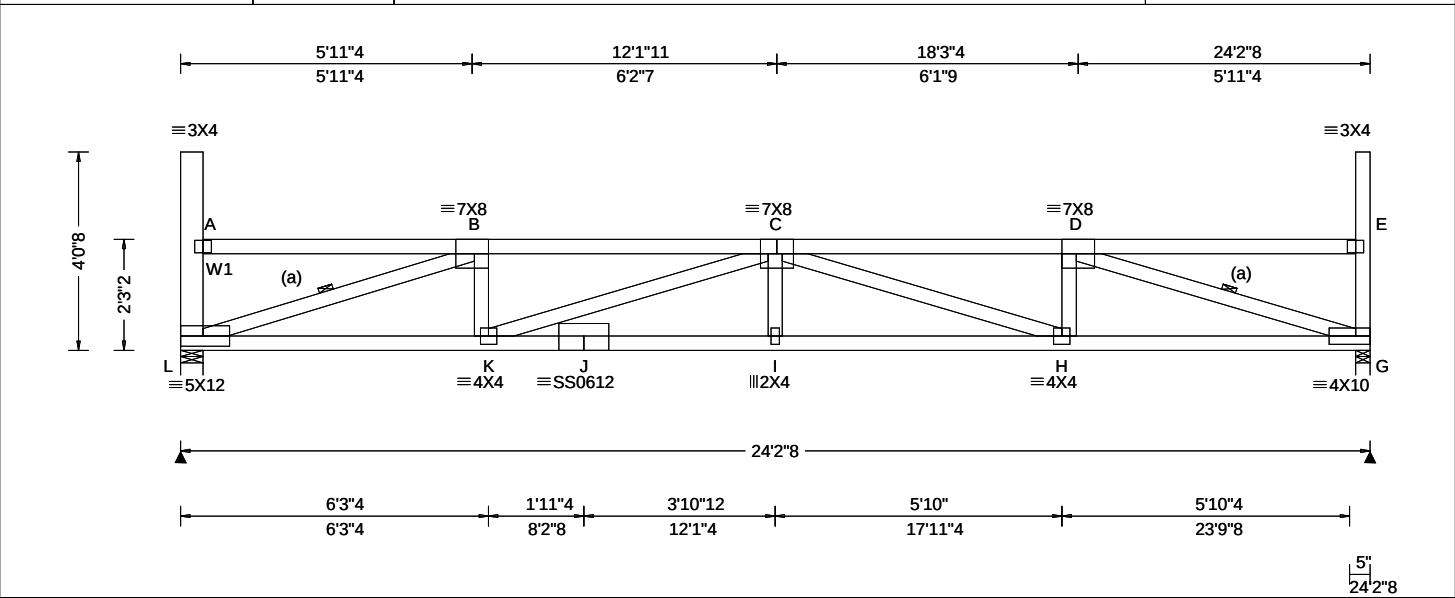


05/22/2022

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Building 14

SEQN: 37848 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T21A	Cust: R 9316 JRef:1XIQ93160003 T27 DrwNo: 142.22.1746.34777 / FK 05/22/2022
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Loading Criteria (psf) TCCL: 20.00 TCDL: 15.00 BCCL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.327 I 887 360 VERT(CL): 0.608 I 477 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.134 G - - Creep Factor: 2.0 Max TC CSI: 0.656 Max BC CSI: 0.671 Max Web CSI: 0.824 VIEW Ver: 21.02.00.1005.17	Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1540 /- /- /730 /78 /123 G 1552 /- /- /737 /80 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -3860 C - D 187 -3870
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Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. L - K 3748 -340 I - H 4963 -286 K - J 4963 -286 H - G 3757 -182 J - I 4963 -286
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Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - B 219 -3851 C - H 128 -1153 B - K 759 -1 H - D 773 0 K - C 129 -1164 D - G 217 -3902
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 23.46 1.78 28.34 5.03 23.92 0.00 23.46 1.78 28.34 5.03 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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Deflection Max JT VERT DEFL: LL: 0.33" DL: 0.28". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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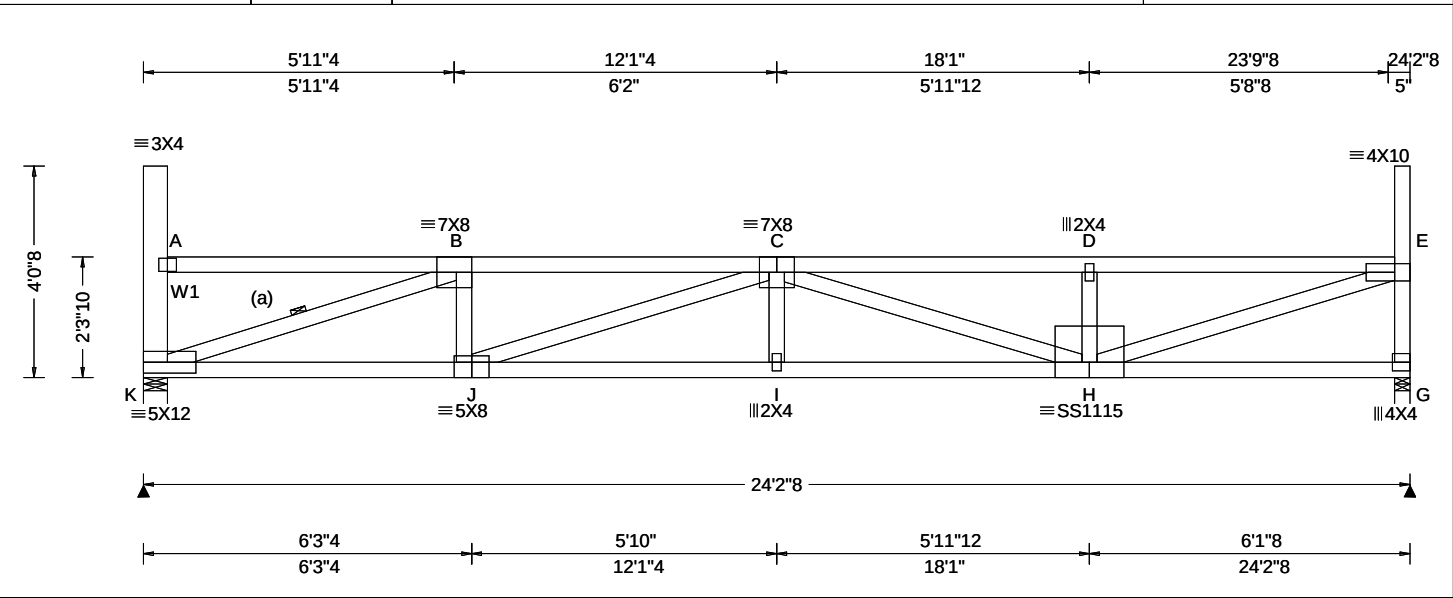
Additional Notes Truss must be installed as shown with top chord up.
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Building 14

SEQN: 37963 FROM:	FLAT Qty: 1	Ply: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T22	Cust: R 9316 JRef:1XIQ93160003 T118 DrwNo: 142.22.1746.37470 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.326 I 890 360 VERT(CL): 0.592 I 490 240 HORZ(LL): 0.057 A - - HORZ(TL): 0.104 A - - Creep Factor: 2.0 Max TC CSI: 0.876 Max BC CSI: 0.565 Max Web CSI: 0.967 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1587 /- /- /730 /78 /122 G 1599 /- /- /736 /80 /- Non-Gravity Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 196 -3891 D - E 187 -3875 C - D 186 -3869

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 DF-L 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.74 26.95 5.28
23.92 0.00 23.46 1.74 26.95 5.28
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.33" DL: 0.27". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

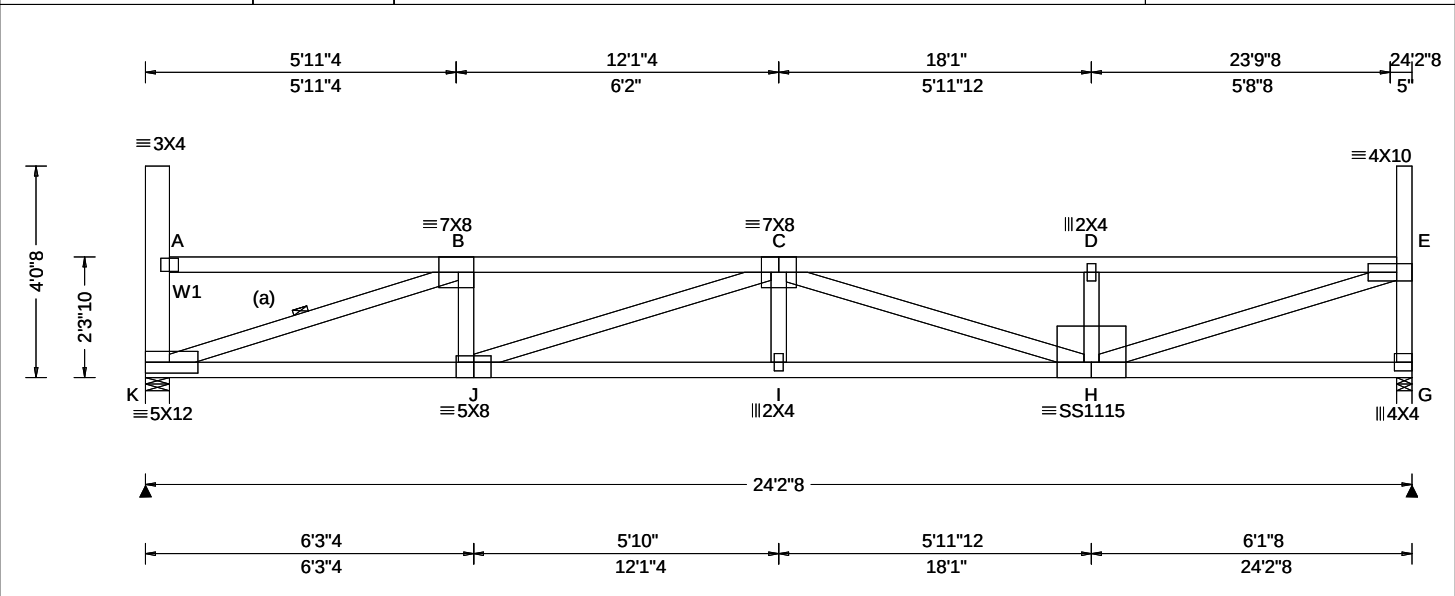


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Building 14

SEQN: 37970 FROM:	FLAT Qty: 1	Ply: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T22A	Cust: R 9316 JRef:1XIQ93160003 T21 DrwNo: 142.22.1746.40240 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.326 I 890 360 VERT(CL): 0.592 I 490 240 HORZ(LL): 0.057 A - - HORZ(TL): 0.104 A - - Creep Factor: 2.0 Max TC CSI: 0.876 Max BC CSI: 0.565 Max Web CSI: 0.967 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1587 /- /- /730 /78 /122 G 1599 /- /- /736 /80 /- Non-Gravity Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 1.6 (Truss) G Brg Wid = 3.5 Min Req = 1.6 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 196 -3891 D - E 187 -3875 C - D 186 -3869

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 DF-L 2400f-2.0E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.74	26.95	5.28
23.92	0.00	23.46	1.74	26.95	5.28

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.27". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



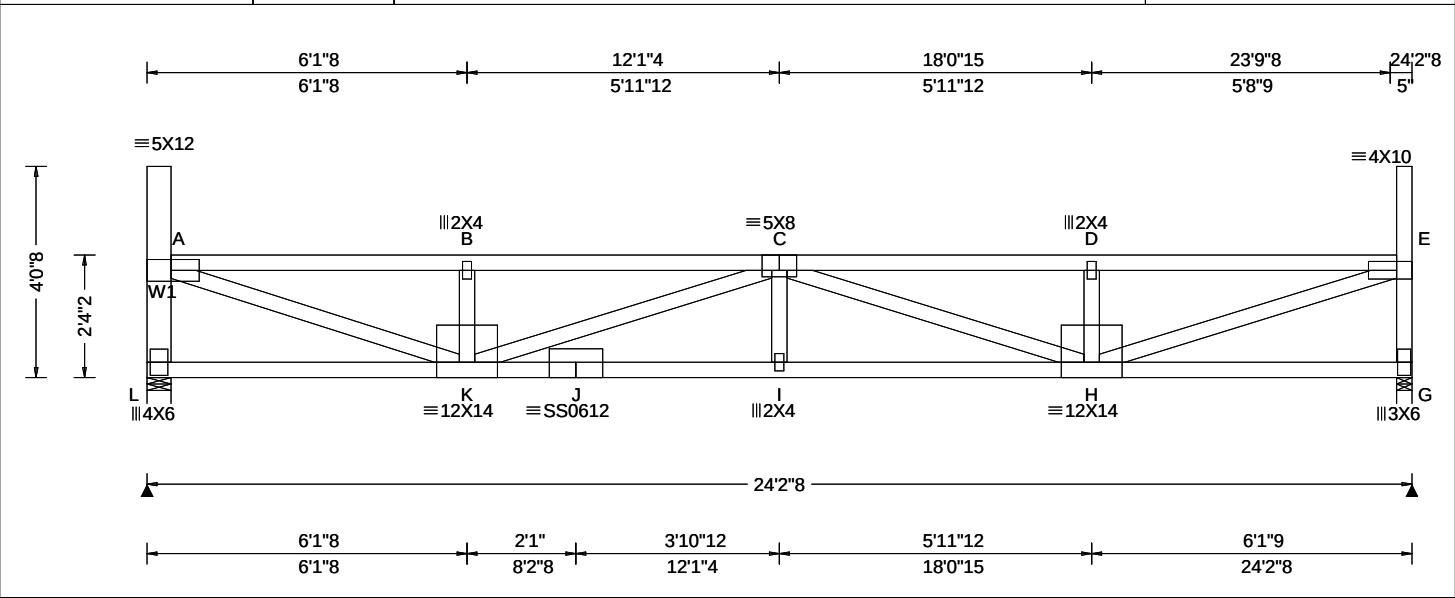
05/22/2022

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Building 14

SEQN: 37851 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T23	Cust: R 9316 JRef:1XIQ93160003 T119 DrwNo: 142.22.1746.42947 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.318 I 914 360 VERT(CL): 0.591 I 491 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.100 A - - Creep Factor: 2.0 Max TC CSI: 0.862 Max BC CSI: 0.651 Max Web CSI: 0.924 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /730 /78 /120 G 1553 /- /- /736 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 198 -3686 C - D 184 -3691 B - C 198 -3681 D - E 185 -3696

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4772 -268 I - H 4772 -268 J - I 4772 -268
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 23.46 1.70 25.57 5.57 23.92 0.00 23.46 1.70 25.57 5.57 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 92 -1372 C - H 111 -1143 A - K 3690 -213 H - E 3767 -212 K - C 114 -1153 E - G 94 -1392
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Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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Deflection Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.
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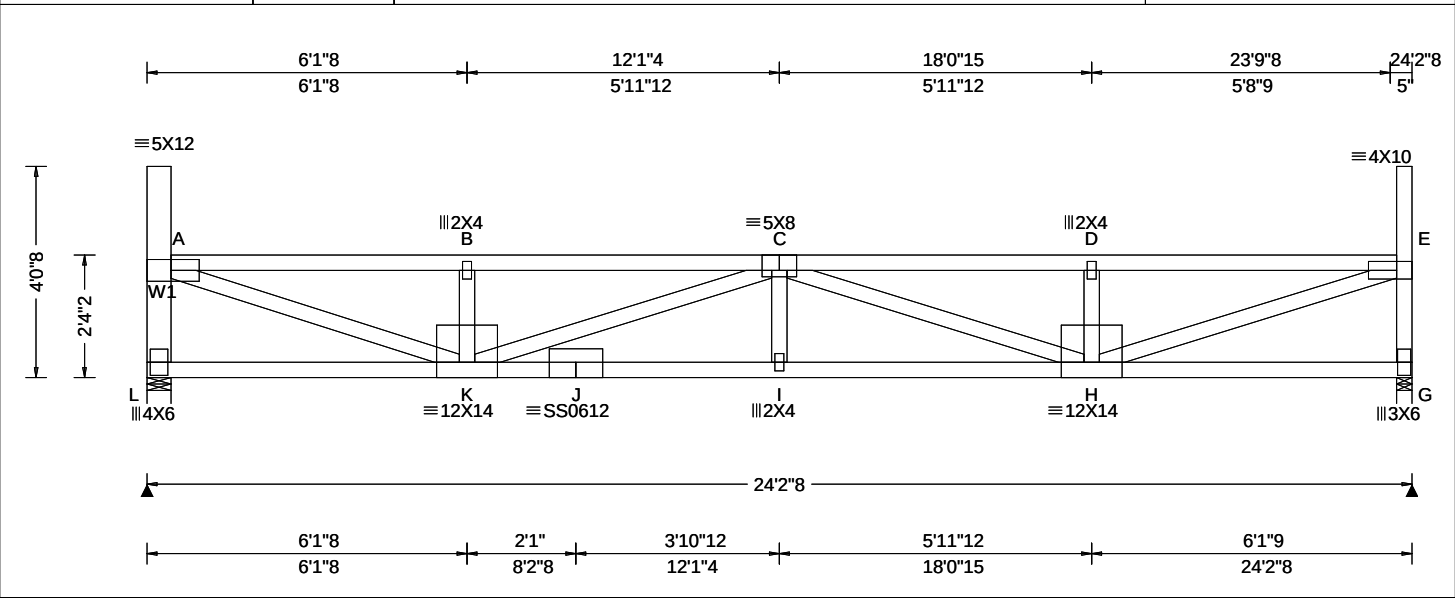


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Building 14

SEQN: 37852 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T23A	Cust: R 9316 JRef:1XIQ93160003 T15 DrwNo: 142.22.1746.45490 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.318 I 914 360 VERT(CL): 0.591 I 491 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.100 A - - Creep Factor: 2.0 Max TC CSI: 0.862 Max BC CSI: 0.651 Max Web CSI: 0.924 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /730 /78 /120 G 1553 /- /- /736 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 198 -3686 C - D 184 -3691 B - C 198 -3681 D - E 185 -3696

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.70 25.57 5.57
23.92 0.00 23.46 1.70 25.57 5.57
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.27". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



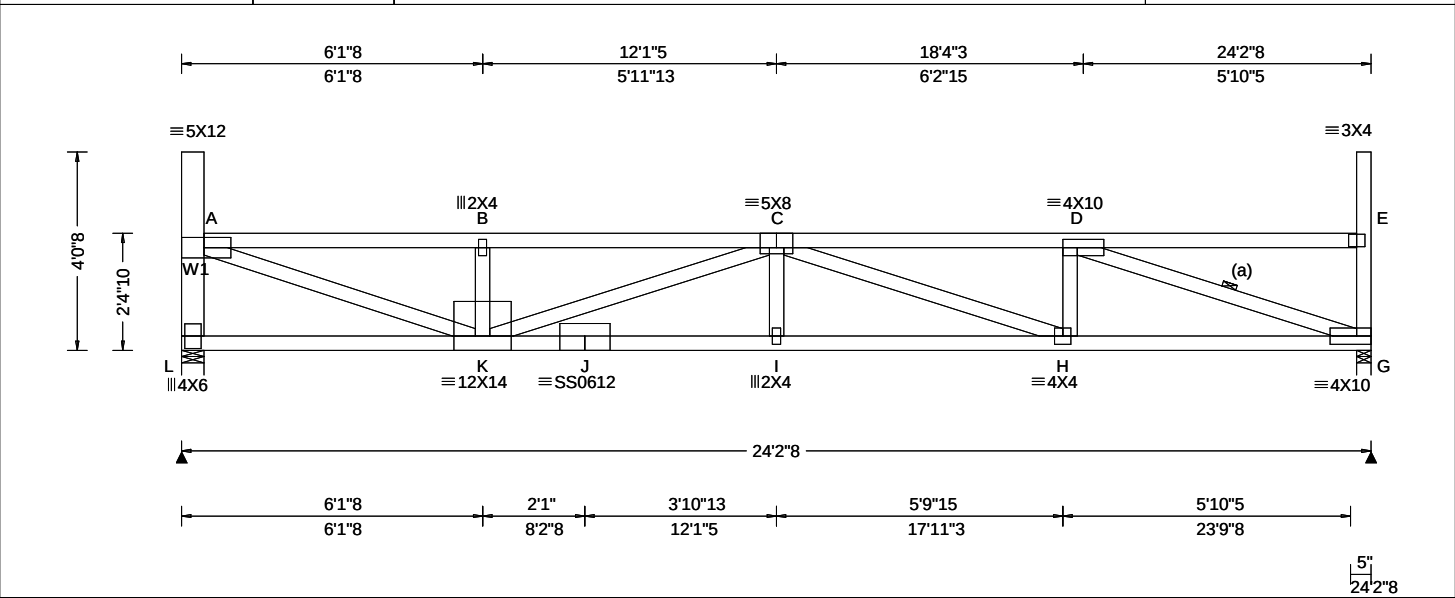
05/22/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37853 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T24	Cust: R 9316 JRef:1XIQ93160003 T120 DrwNo: 142.22.1746.48120 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.39 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.298 I 973 360 VERT(CL): 0.555 I 523 240 HORZ(LL): 0.054 G - - HORZ(TL): 0.100 G - - Creep Factor: 2.0 Max TC CSI: 0.822 Max BC CSI: 0.647 Max Web CSI: 0.890 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /730 /78 /119 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 195 - 3615 C - D 177 - 3649 B - C 194 - 3610

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



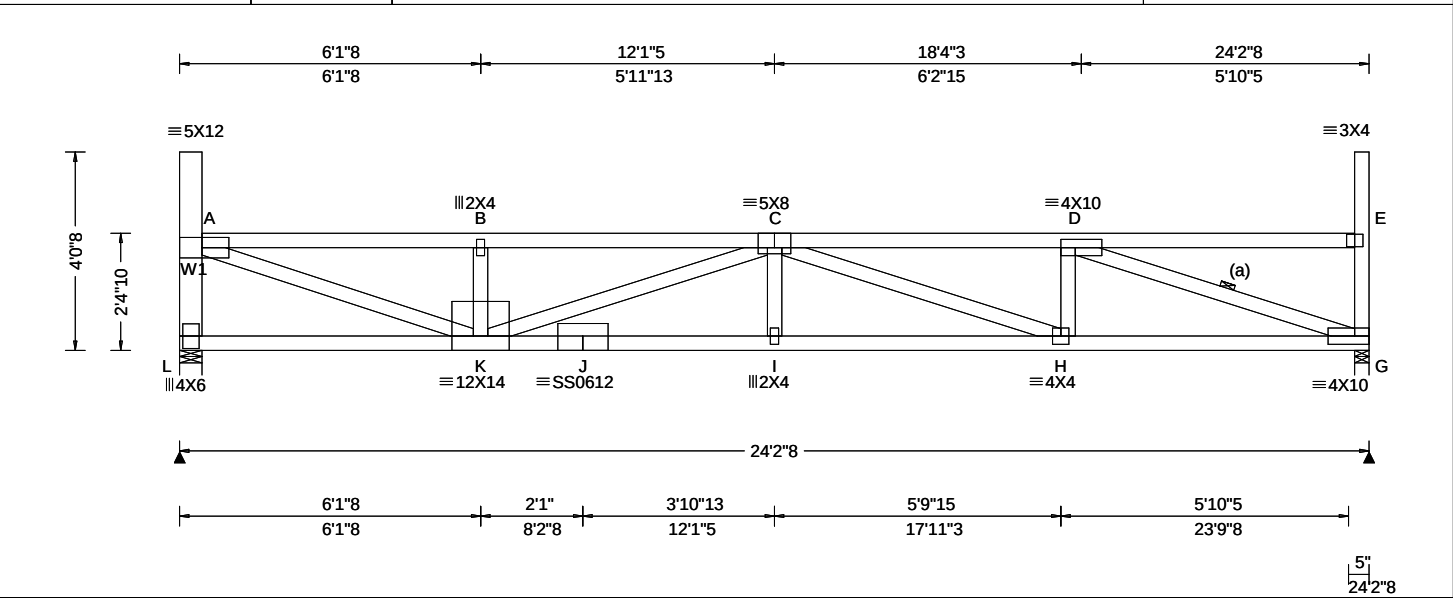
05/22/2022

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Building 14

SEQN: 37854 FROM:	FLAT Qty: 1	Ply: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T24A	Cust: R 9316 JRef:1XIQ93160003 T26 DrwNo: 142.22.1746.50930 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.298 I 973 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.555 I 523 240	L	1542	/-	/-	/730	/78	/119
BCDL: 15.00		Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.054 G - -	G	1553	/-	/-	/736	/81	/-
Des Ld: 65.00		EXP: B Kzt: NA		HORZ(TL): 0.100 G - -	Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 21.39 ft	Building Code:	Creep Factor: 2.0	L	Brg Wid = 5.5 Min Req = 2.0 (Truss)					
Soffit: 2.00		TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.822	G	Brg Wid = 3.5 Min Req = 2.0 (Truss)					
Load Duration: 1.15		BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.647	Bearings L & G are a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.890	Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords	Tens.Comp.		Chords	Tens. Comp.		
		GCpi: 0.18			A - B	195 - 3615		C - D	177 - 3649		
		Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	B - C	194 - 3610					

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.66	24.19	5.83
23.92	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.26". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

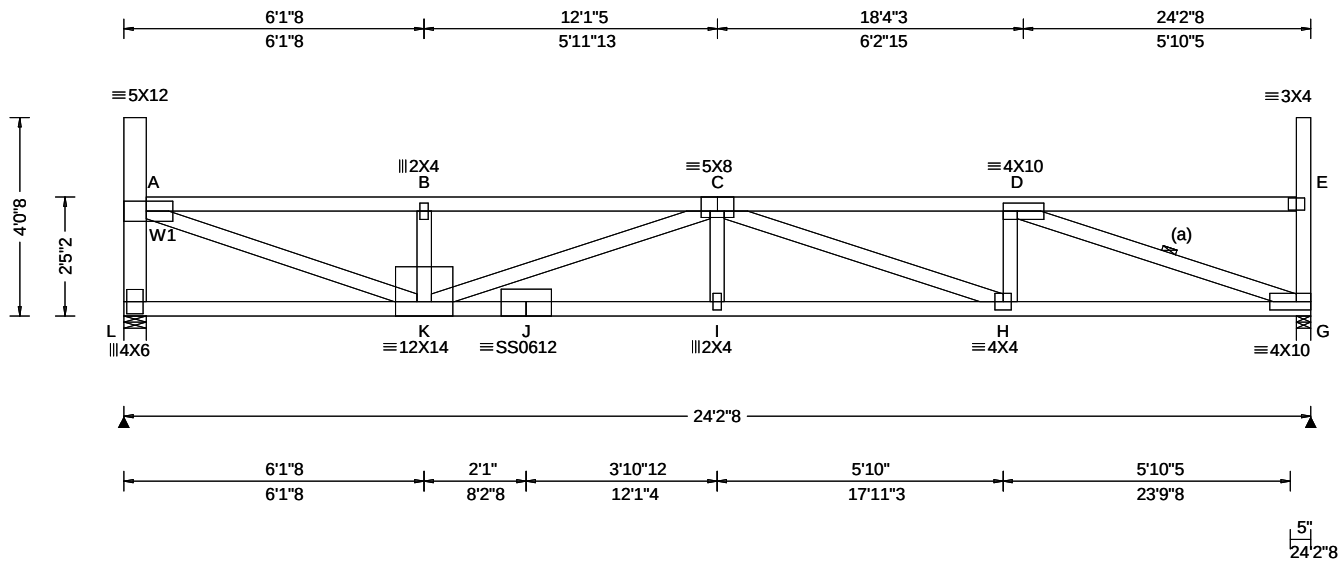
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37855 FROM:	FLAT Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T25	Cust: R 9316 JRef:1XIQ93160003 T121 DrwNo: 142.22.1746.53663 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.287 I 999 360 VERT(CL): 0.534 I 543 240 HORZ(LL): 0.053 G - - HORZ(TL): 0.098 G - - Creep Factor: 2.0 Max TC CSI: 0.794 Max BC CSI: 0.641 Max Web CSI: 0.874 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 /- /- /730 /78 /118 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 191 - 3546 C - D 174 - 3579 B - C 191 - 3541

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.61	22.80	5.50
23.92	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



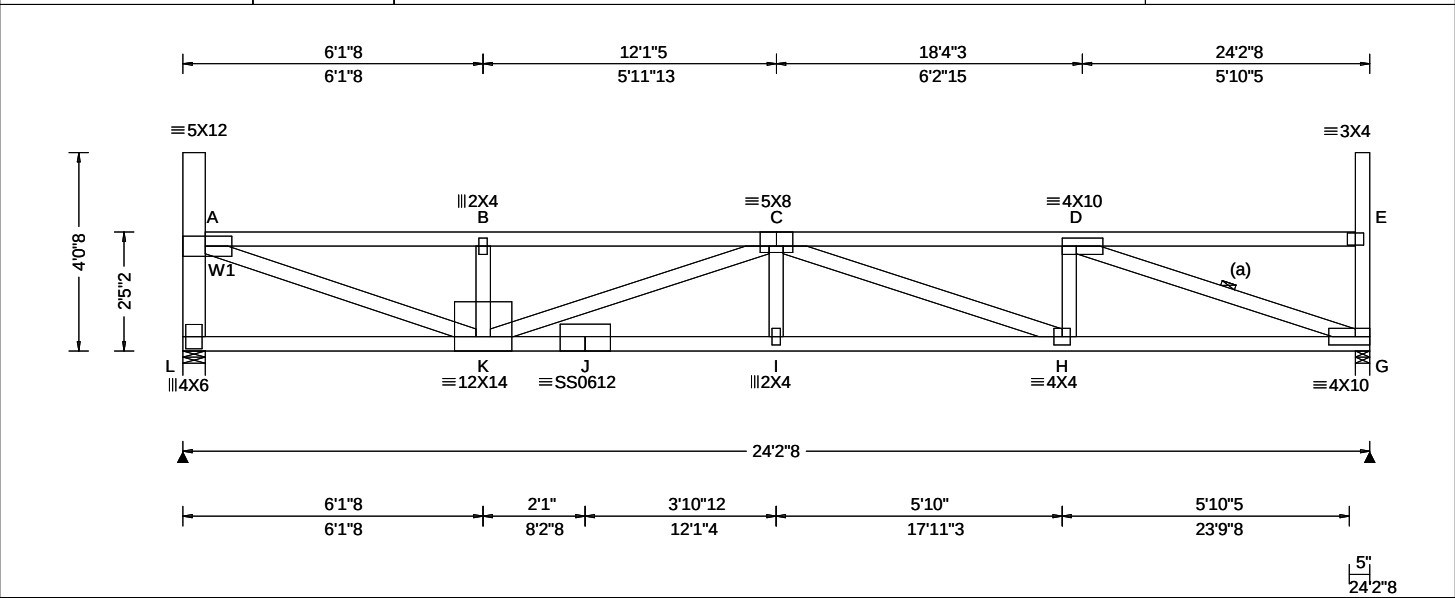
05/22/2022

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Building 14

SEQN: 37856 FROM:	FLAT Qty: 1	Ply: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T25A	Cust: R 9316 JRef:1XIQ93160003 T14 DrwNo: 142.22.1746.56357 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.287 I 999 360 VERT(CL): 0.534 I 543 240 HORZ(LL): 0.053 G - - HORZ(TL): 0.098 G - - Creep Factor: 2.0 Max TC CSI: 0.794 Max BC CSI: 0.641 Max Web CSI: 0.874 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 /- /- /730 /78 /118 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 191 - 3546 C - D 174 - 3579 B - C 191 - 3541

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4586 - 262 I - H 4586 - 262 J - I 4586 - 262 H - G 3475 - 174
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Bracing (a) Continuous lateral restraint equally spaced on member.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 93 - 1373 C - H 109 - 1073 A - K 3563 - 205 H - D 772 0 K - C 109 - 1110 D - G 204 - 3641
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 23.46 1.61 22.80 5.50 23.92 0.00 23.46 1.61 22.80 5.50 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.

Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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Deflection Max JT VERT DEFL: LL: 0.29" DL: 0.25". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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Additional Notes Truss must be installed as shown with top chord up.
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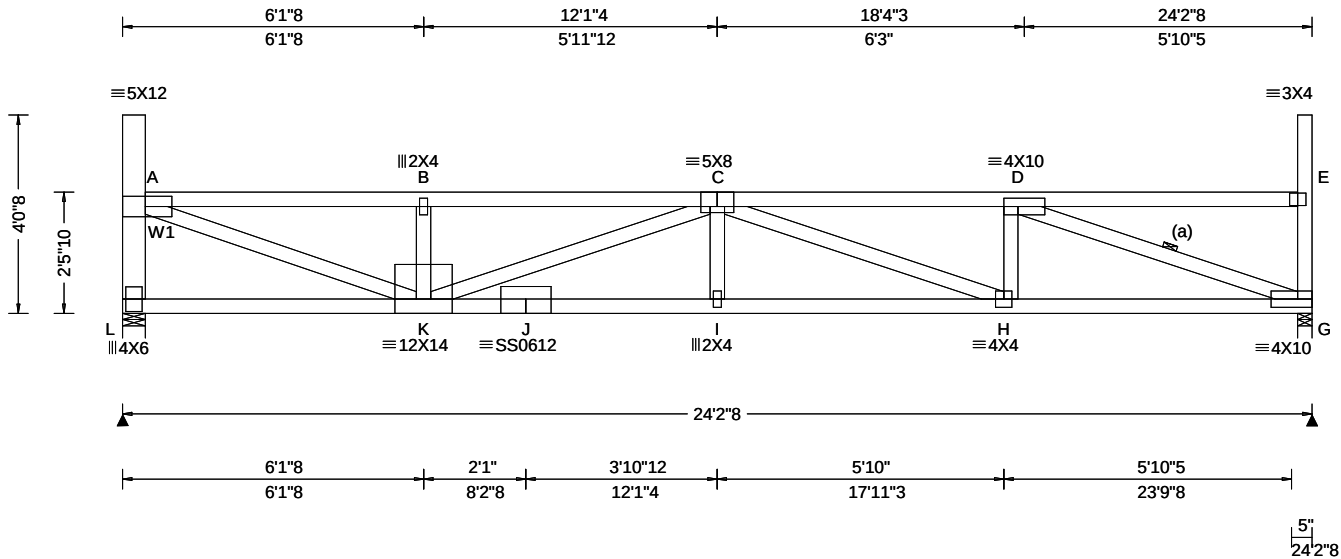


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Building 14

SEQN: 37857 FROM:	FLAT Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T26	Cust: R 9316 JRef:1XIQ93160003 T106 DrwNo: 142.22.1746.59010 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.277 I 999 360 VERT(CL): 0.515 I 563 240 HORZ(LL): 0.052 G - - HORZ(TL): 0.096 G - - Creep Factor: 2.0 Max TC CSI: 0.754 Max BC CSI: 0.635 Max Web CSI: 0.860 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1542 /- /- /730 /78 /116 G 1553 /- /- /736 /81 /- Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 189 -3480 C - D 171 -3512 B - C 188 -3475

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

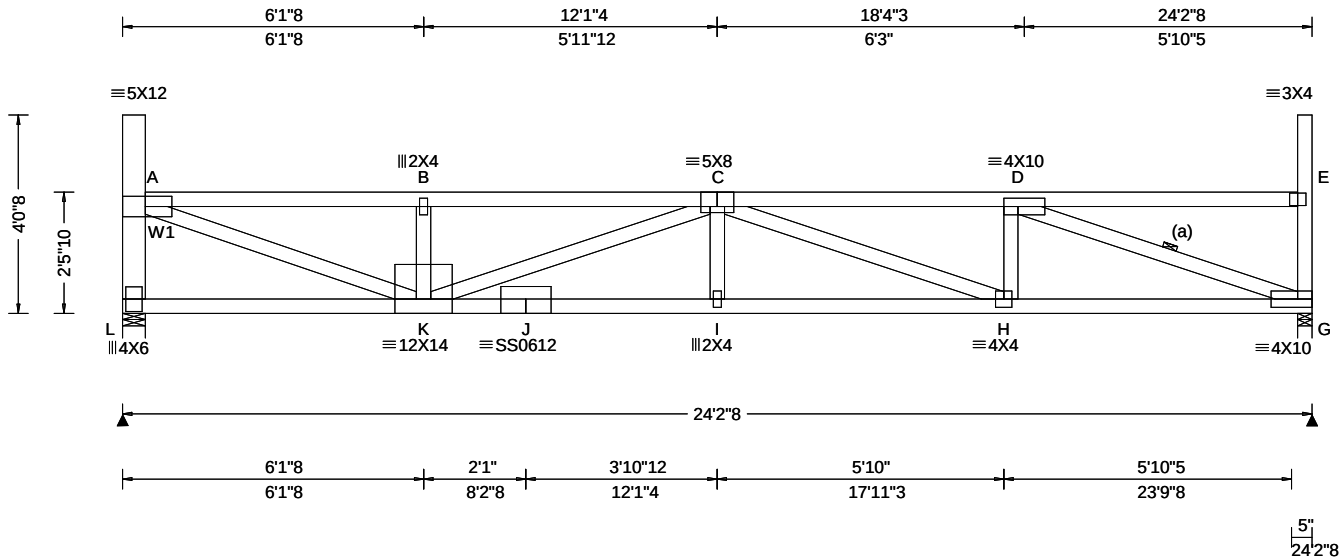
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37858 FROM:	FLAT Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T26A	Cust: R 9316 JRef:1XIQ93160003 T20 DrwNo: 142.22.1747.01643 / FK 05/22/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.47 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.277 I 999 360 VERT(CL): 0.515 I 563 240 HORZ(LL): 0.052 G - - HORZ(TL): 0.096 G - - Creep Factor: 2.0 Max TC CSI: 0.754 Max BC CSI: 0.635 Max Web CSI: 0.860 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				L	1542	/-	/-	/730	/78	/116
				G	1553	/-	/-	/736	/81	/-
				Wind reactions based on MWFRS						
				L Brg Wid = 5.5		Min Req = 2.0 (Truss)				
				G Brg Wid = 3.5		Min Req = 2.0 (Truss)				
				Bearings L & G are a rigid surface.						
				Members not listed have forces less than 375#						
			Maximum Top Chord Forces Per Ply (lbs)							
			Chords		Tens.Comp.		Chords		Tens. Comp.	
			A - B	189 - 3480		C - D		171		- 3512
			B - C	189 - 3475						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.57	21.42	5.16
23.92	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

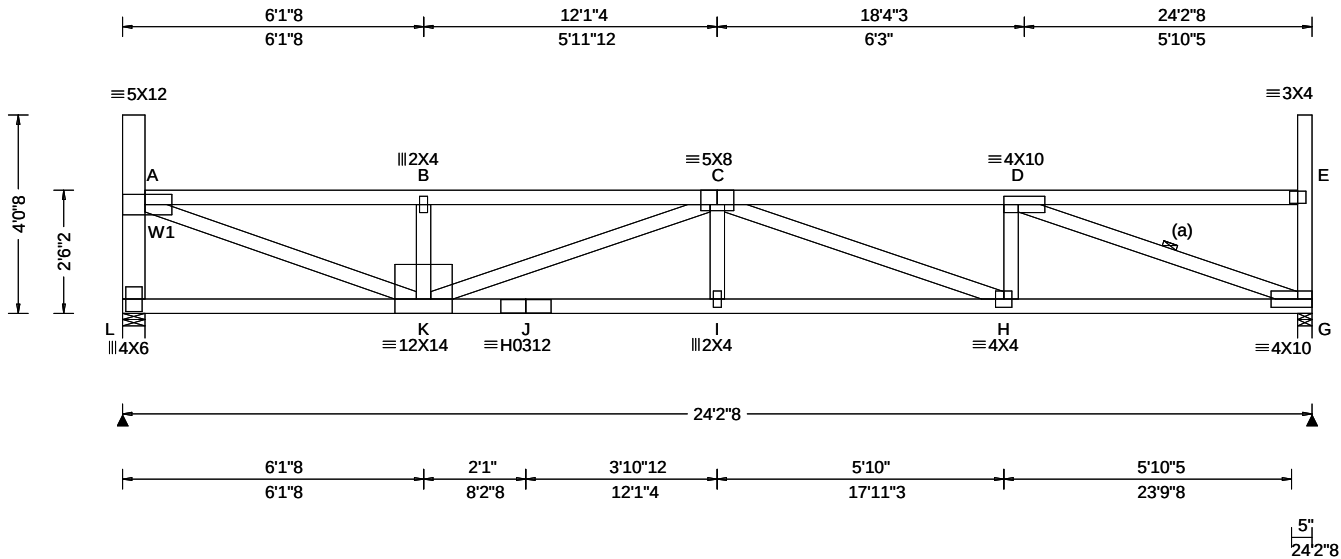
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37859 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T27	Cust: R 9316 JRef:1XIQ93160003 T105 DrwNo: 142.22.1747.04203 / FK 05/22/2022
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Loading Criteria (psf) TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.268 I 999 360 VERT(CL): 0.497 I 584 240 HORZ(LL): 0.051 G - - HORZ(TL): 0.094 G - - Creep Factor: 2.0 Max TC CSI: 0.719 Max BC CSI: 0.629 Max Web CSI: 0.846 VIEW Ver: 21.02.00.1005.17	▲ Maximum Reactions (lbs) <table><tr><th colspan="3">Gravity</th><th colspan="3">Non-Gravity</th></tr><tr><th>Loc</th><th>R+ / R-</th><th>/ Rh</th><th>/ Rw</th><th>/ U</th><th>/ RL</th></tr><tr><td>L</td><td>1542</td><td>/- /-</td><td>/729</td><td>/79</td><td>/115</td></tr><tr><td>G</td><td>1553</td><td>/- /-</td><td>/736</td><td>/81</td><td>/-</td></tr></table> Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. <table><tr><td>A - B</td><td>186 - 3416</td><td>C - D</td><td>168 - 3448</td></tr><tr><td>B - C</td><td>195 - 3412</td><td></td><td></td></tr></table>	Gravity			Non-Gravity			Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL	L	1542	/- /-	/729	/79	/115	G	1553	/- /-	/736	/81	/-	A - B	186 - 3416	C - D	168 - 3448	B - C	195 - 3412		
	Gravity			Non-Gravity																																
	Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL																														
	L	1542	/- /-	/729	/79	/115																														
	G	1553	/- /-	/736	/81	/-																														
	A - B	186 - 3416	C - D	168 - 3448																																
	B - C	195 - 3412																																		

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	23.46	1.53	20.04 4.83
	23.92	0.00	23.46	1.53	20.04 4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



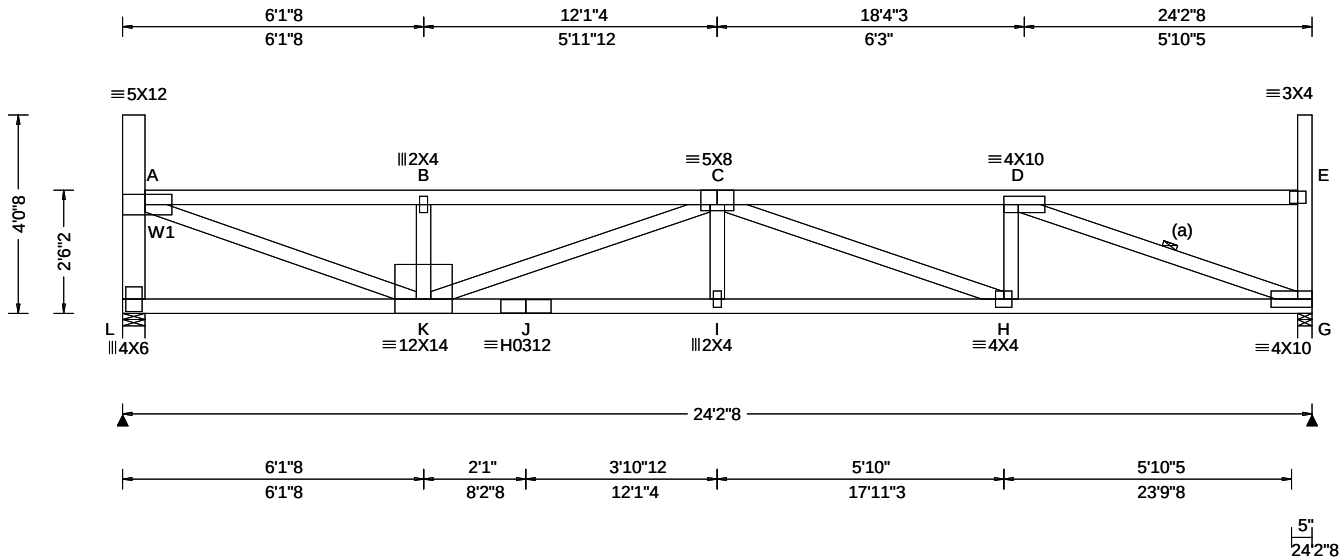
05/22/2022

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Building 14

SEQN: 37860 FROM:	FLAT Qty: 1	Ply: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T27A	Cust: R 9316 JRef:1XIQ93160003 T25 DrwNo: 142.22.1747.06820 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity						
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCCL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	L	1542	/-	/-	/729	/79	/115
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	G	1553	/-	/-	/736	/81	/-
Des Ld: 65.00	EXP: B Kzt: NA	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	HORZ(LL): 0.051 G - -	Wind reactions based on MWFRS						
NCBCLL: 0.00	Mean Height: 21.51 ft		HORZ(TL): 0.094 G - -	L Brg Wid = 5.5 Min Req = 2.0 (Truss)						
Soffit: 2.00	TCDL: 5.0 psf		Creep Factor: 2.0	G Brg Wid = 3.5 Min Req = 2.0 (Truss)						
Load Duration: 1.15	BCDL: 3.0 psf		Max TC CSI: 0.719	Bearings L & G are a rigid surface.						
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h		Max BC CSI: 0.629	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft		Max Web CSI: 0.846	Maximum Top Chord Forces Per Ply (lbs)						
	Loc. from endwall: not in 14.50 ft			Chords Tens.Comp.		Chords Tens. Comp.				
	GCpi: 0.18			A - B		186 - 3416		C - D		168 - 3448
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17	B - C		185 - 3412				

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.53	20.04	4.83
23.92	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.23". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

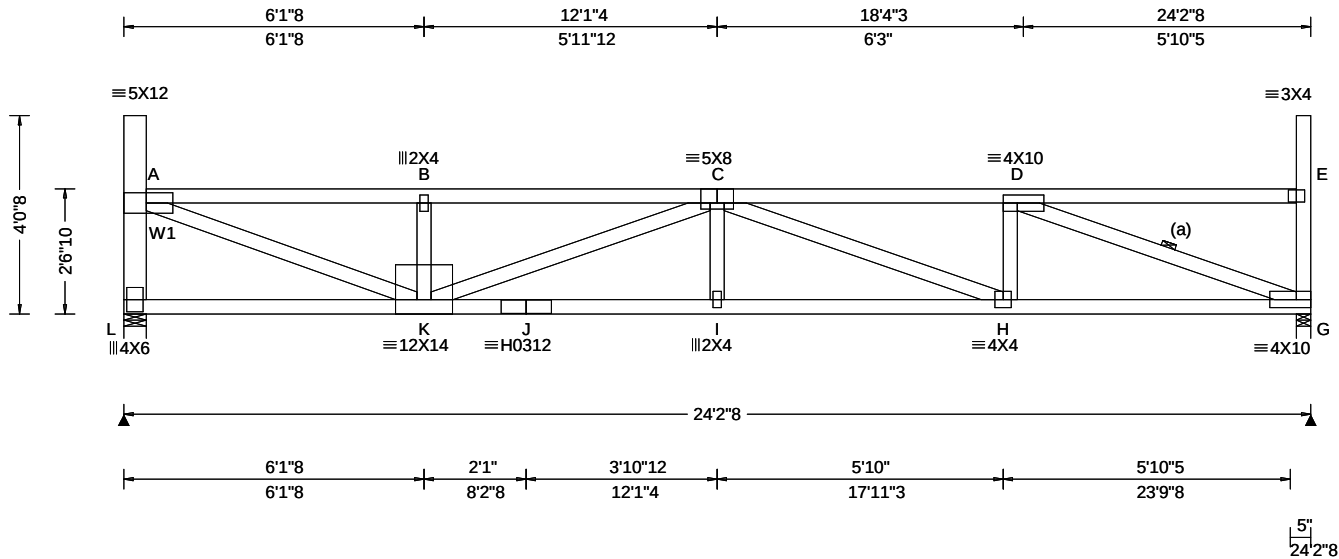
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37861 FROM:	FLAT Qty: 1	Ply: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T28	Cust: R 9316 JRef:1XIQ93160003 T107 DrwNo: 142.22.1747.09547 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity			Non-Gravity			
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	L	1542	/-	/-	/729	/79	/113
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	G	1553	/-	/-	/736	/81	/-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(LL): 0.050 G - -	Wind reactions based on MWFRS						
NCBCLL: 0.00	Mean Height: 21.55 ft	Building Code:	HORZ(TL): 0.093 G - -	L Brg Wid = 5.5 Min Req = 2.0 (Truss)						
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Creep Factor: 2.0	G Brg Wid = 3.5 Min Req = 2.0 (Truss)						
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max TC CSI: 0.687	Bearings L & G are a rigid surface.						
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max BC CSI: 0.623	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Max Web CSI: 0.832	Maximum Top Chord Forces Per Ply (lbs)						
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp.		Chords Tens. Comp.				
	GCpi: 0.18									
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	A - B 183 - 3355		C - D 165 - 3386				
				B - C 192 - 3350						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



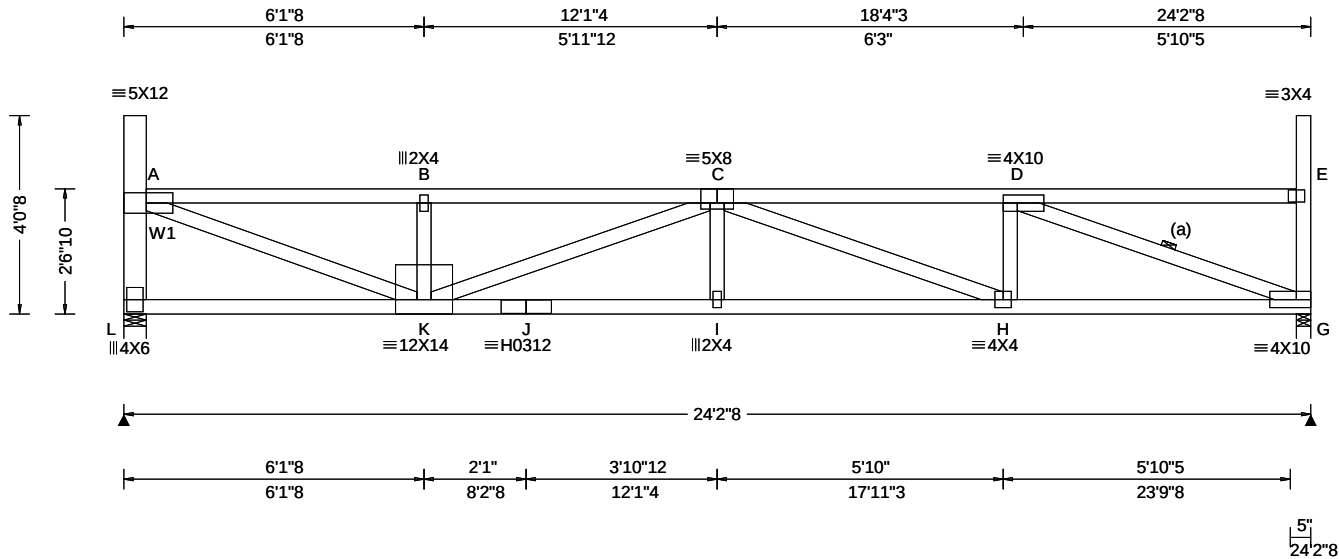
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37862 FROM:	FLAT Qty: 1	Ply: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T28A	Cust: R 9316 JRef:1XIQ93160003 T19 DrwNo: 142.22.1747.12337 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.55 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.258 I 999 360 VERT(CL): 0.480 I 604 240 HORZ(LL): 0.050 G - - HORZ(TL): 0.093 G - - Creep Factor: 2.0 Max TC CSI: 0.687 Max BC CSI: 0.623 Max Web CSI: 0.832 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /729 /79 /113 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 183 - 3355 C - D 165 - 3386 B - C 182 - 3350

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.49	18.65	4.50
23.92	0.00	23.46	1.49	18.65	4.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



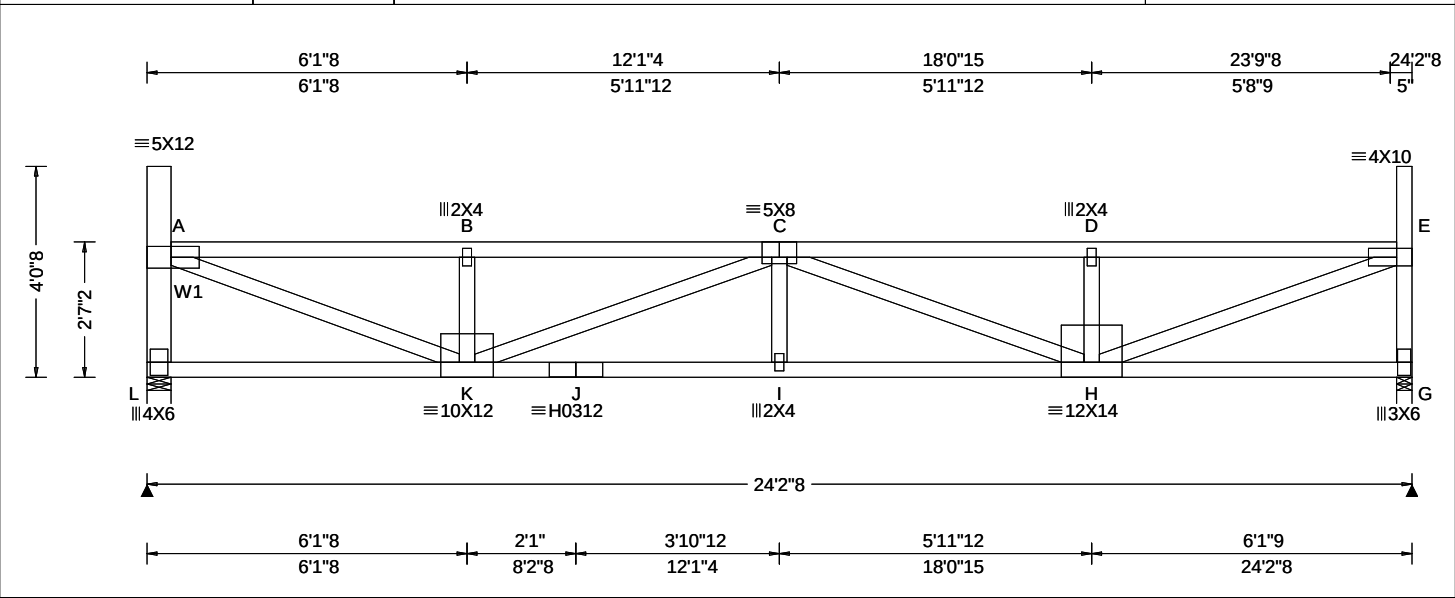
05/22/2022

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Building 14

SEQN: 37863 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T29	Cust: R 9316 JRef:1XIQ93160003 T111 DrwNo: 142.22.1747.14950 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.476 I 610 240 HORZ(LL): 0.049 A - - HORZ(TL): 0.090 A - - Creep Factor: 2.0 Max TC CSI: 0.694 Max BC CSI: 0.608 Max Web CSI: 0.836 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /729 /79 /112 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 180 -3295 C - D 165 -3299 B - C 180 -3291 D - E 166 -3304

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4259 -248 I - H 4259 -248 J - I 4259 -248
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 23.46 1.45 17.27 4.16 23.92 0.00 23.46 1.45 17.27 4.16 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 94 -1374 C - H 97 -1029 A - K 3338 -192 D - H 77 -381 B - K 77 -377 H - E 3407 -191 K - C 99 -1038 E - G 95 -1394
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Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

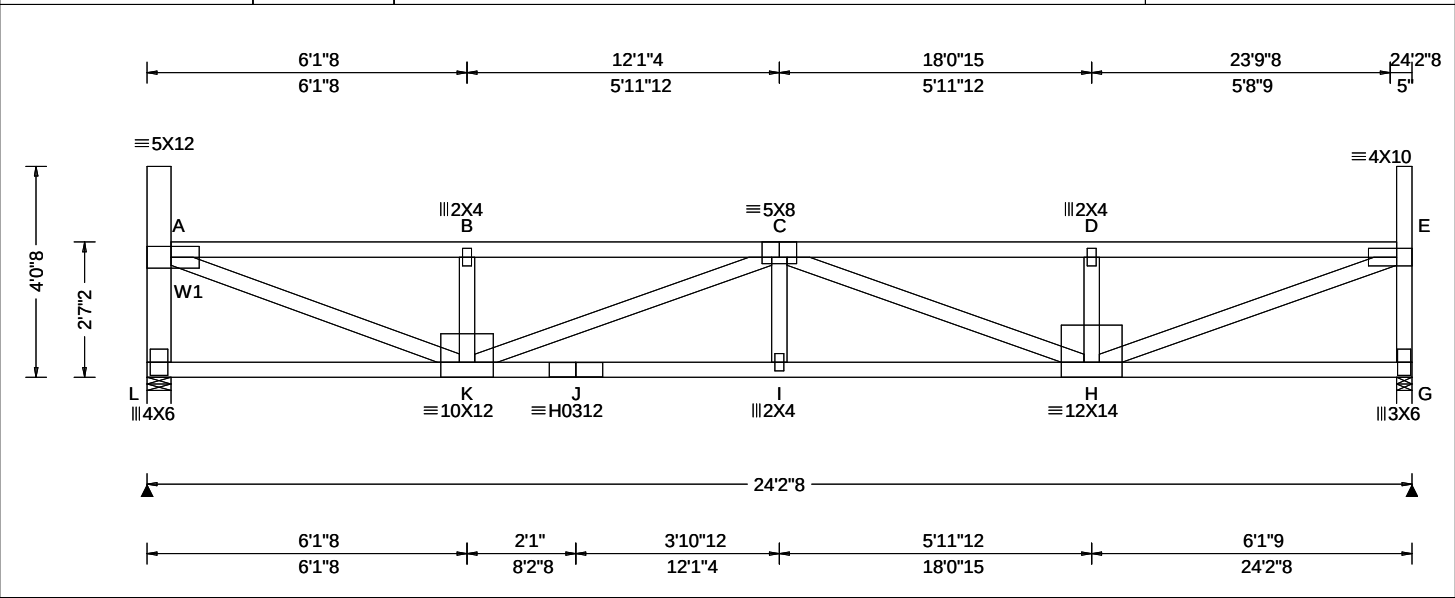


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Building 14

SEQN: 37864 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T29A	Cust: R 9316 JRef:1XIQ93160003 T13 DrwNo: 142.22.1747.31687 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.256 I 999 360 VERT(CL): 0.476 I 610 240 HORZ(LL): 0.049 A - - HORZ(TL): 0.090 A - - Creep Factor: 2.0 Max TC CSI: 0.694 Max BC CSI: 0.608 Max Web CSI: 0.836 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /729 /79 /112 G 1553 /- /- /736 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 180 -3295 C - D 165 -3299 B - C 180 -3291 D - E 166 -3304

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4259 -248 I - H 4259 -248 J - I 4259 -248
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.46 0.00 23.46 1.45 17.27 4.16 23.92 0.00 23.46 1.45 17.27 4.16 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 94 -1374 C - H 97 -1029 A - K 3338 -192 D - H 77 -381 B - K 77 -377 H - E 3407 -191 K - C 99 -1038 E - G 95 -1394

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



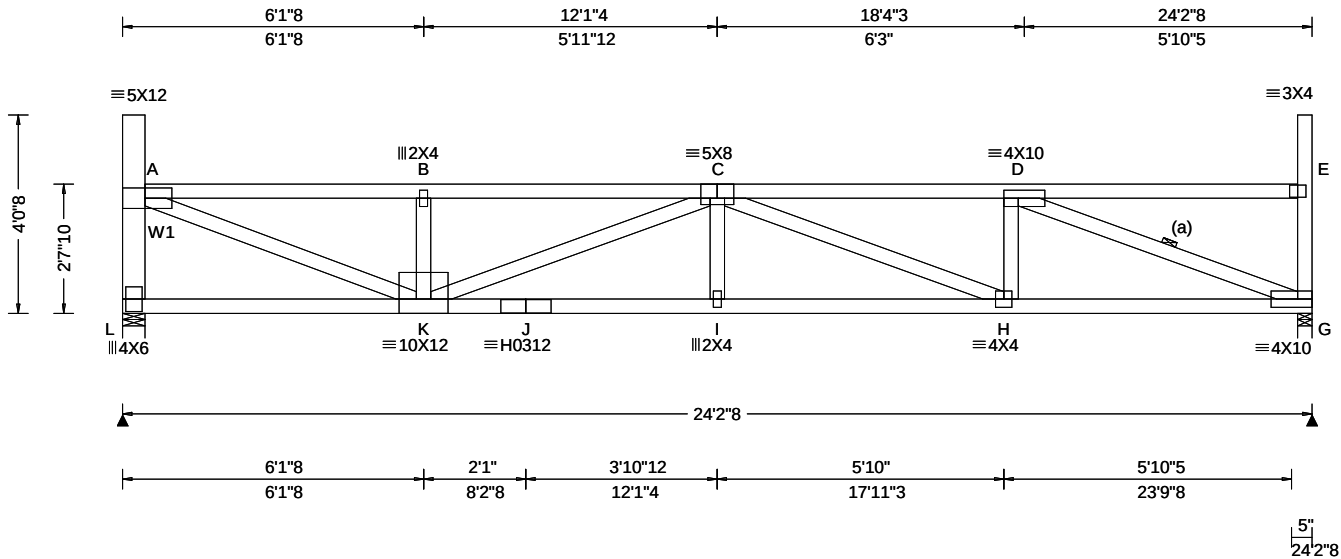
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AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37865 FROM:	FLAT Qty: 1	Ply: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T30	Cust: R 9316 JRef:1XIQ93160003 T122 DrwNo: 142.22.1747.34627 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.242 I 999 360 VERT(CL): 0.449 I 646 240 HORZ(LL): 0.048 G - - HORZ(TL): 0.089 G - - Creep Factor: 2.0 Max TC CSI: 0.649 Max BC CSI: 0.612 Max Web CSI: 0.806 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /729 /79 /111 G 1553 /- /- /735 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 178 - 3238 C - D 159 - 3267 B - C 177 - 3234

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



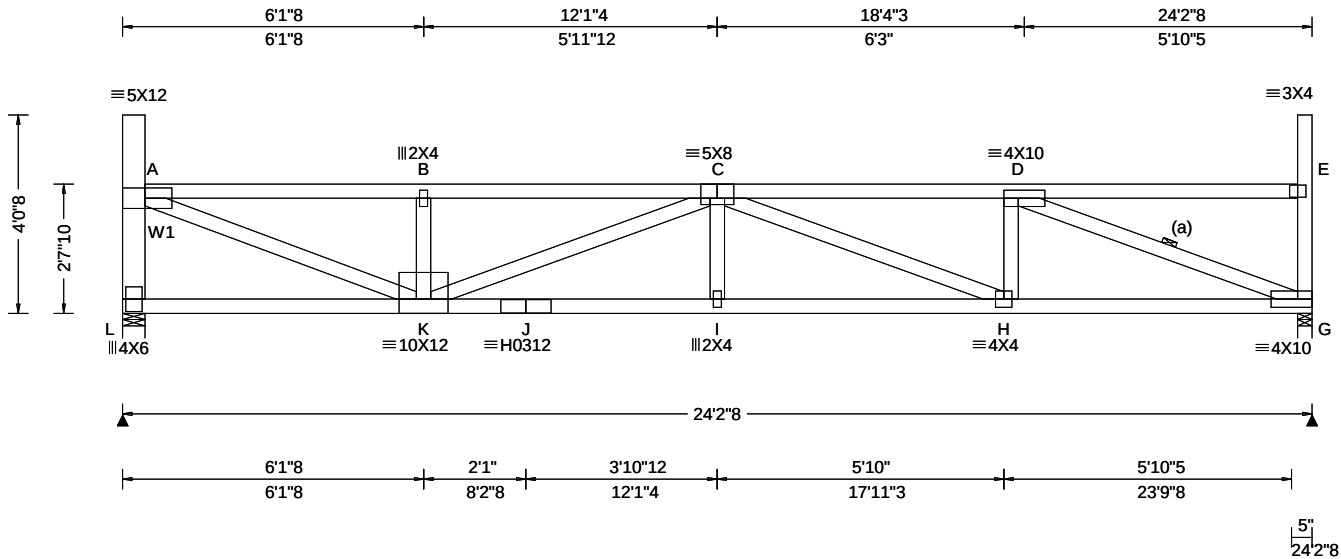
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Building 14

SEQN: 37866 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T30A	Cust: R 9316 JRef:1XIQ93160003 T23 DrwNo: 142.22.1747.37363 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.242 I 999 360 VERT(CL): 0.449 I 646 240 HORZ(LL): 0.048 G - - HORZ(TL): 0.089 G - - Creep Factor: 2.0 Max TC CSI: 0.649 Max BC CSI: 0.612 Max Web CSI: 0.806 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /729 /79 /111 G 1553 /- /- /735 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 178 - 3238 C - D 159 - 3267 B - C 177 - 3234

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.41	15.89	3.83
23.92	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



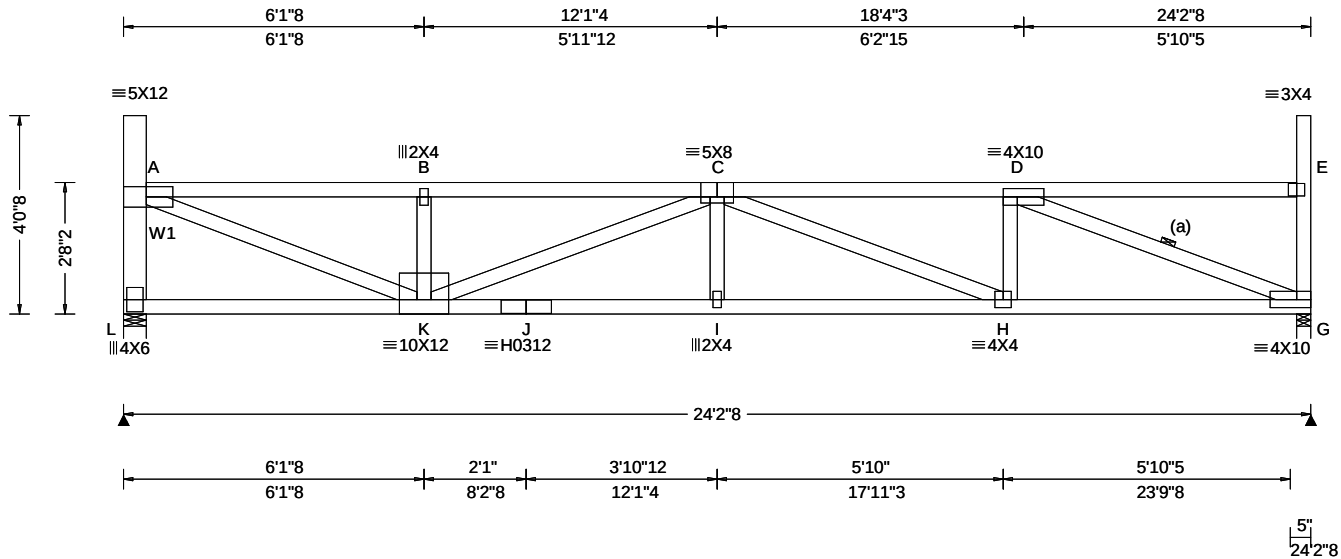
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Building 14

SEQN: 37867 FROM:	FLAT Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T31	Cust: R 9316 JRef:1XIQ93160003 T129 DrwNo: 142.22.1747.40307 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.234 I 999 360 VERT(CL): 0.435 I 668 240 HORZ(LL): 0.047 G - - HORZ(TL): 0.088 G - - Creep Factor: 2.0 Max TC CSI: 0.637 Max BC CSI: 0.606 Max Web CSI: 0.794 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /729 /79 /109 G 1553 /- /- /735 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 175 - 3183 C - D 156 - 3211 B - C 174 - 3178

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



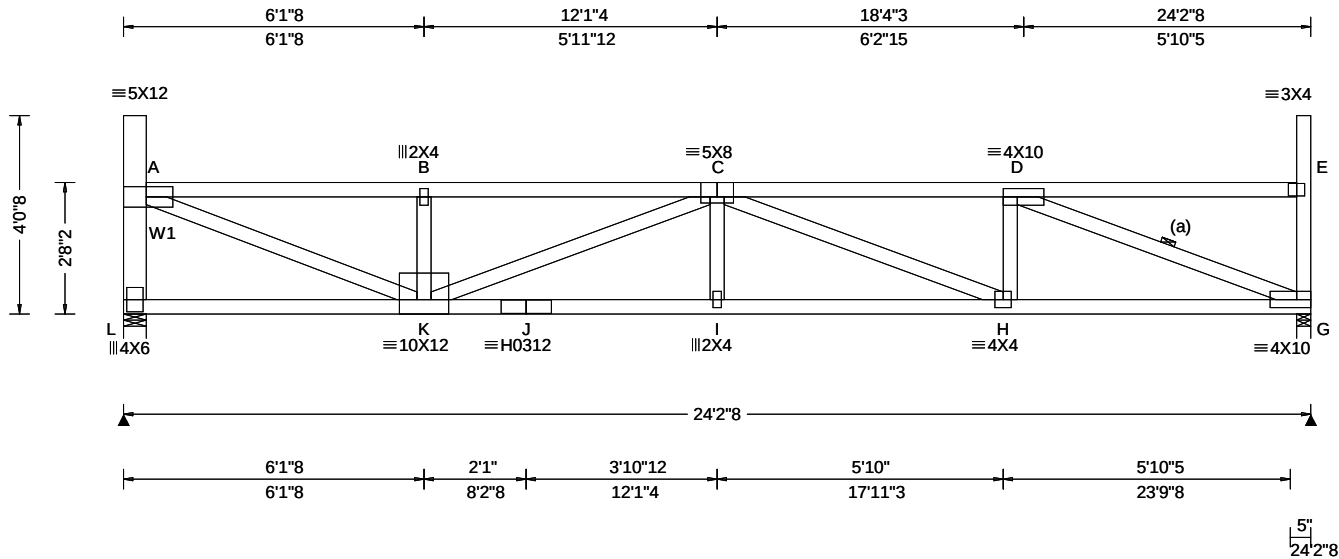
05/22/2022

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Building 14

SEQN: 37868 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T31A	Cust: R 9316 JRef:1XIQ93160003 T18 DrwNo: 142.22.1747.43073 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.234 I 999 360 VERT(CL): 0.435 I 668 240 HORZ(LL): 0.047 G - - HORZ(TL): 0.088 G - - Creep Factor: 2.0 Max TC CSI: 0.637 Max BC CSI: 0.606 Max Web CSI: 0.794 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /729 /79 /109 G 1553 /- /- /735 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 5.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 175 -3183 C - D 156 -3211 B - C 174 -3178

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.46	0.00	23.46	1.36	14.50	3.50
23.92	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.23" DL: 0.20". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



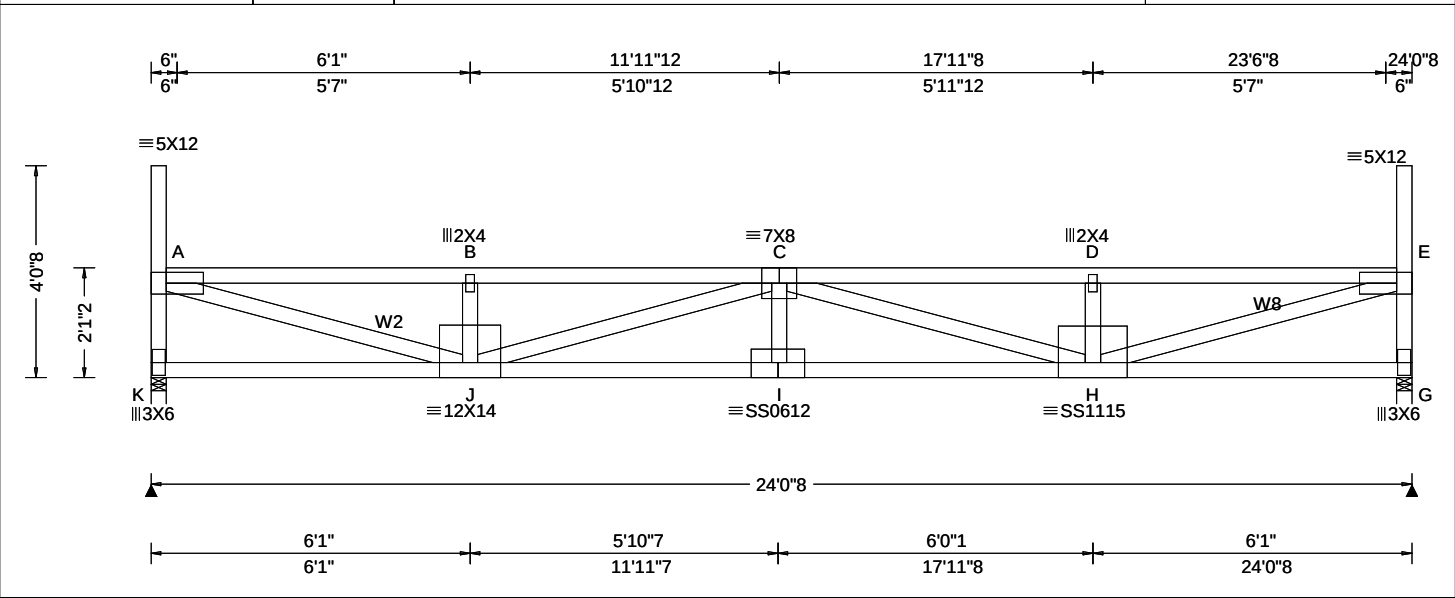
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Building 14

SEQN: 37869 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T33	Cust: R 9316 JRef:1XIQ93160003 T166 DrwNo: 142.22.1747.45727 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.09 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.380 I 759 360 VERT(CL): 0.706 I 408 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.110 A - - Creep Factor: 2.0 Max TC CSI: 0.932 Max BC CSI: 0.715 Max Web CSI: 0.844 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /733 /80 /138 G 1542 /- /- /733 /80 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 239 -4139 C - D 239 -4138 B - C 238 -4133 D - E 239 -4143

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.95 33.87 4.20
23.75 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



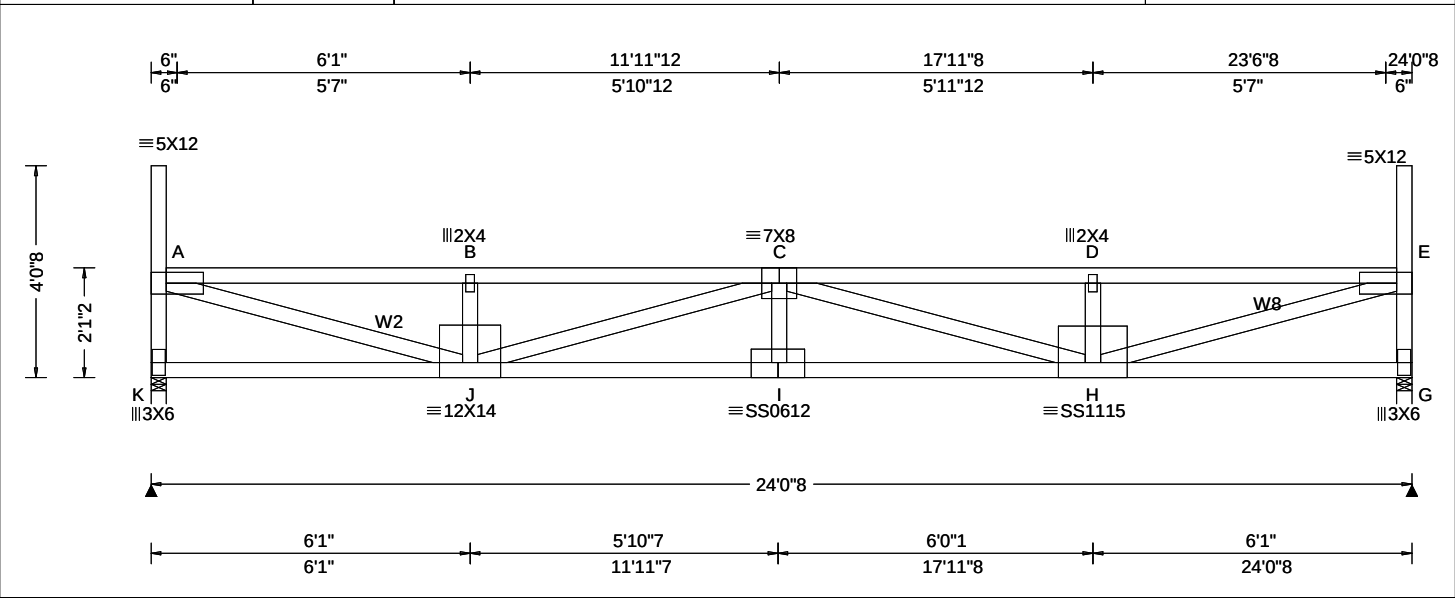
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37870 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T33A	Cust: R 9316 JRef:1XIQ93160003 T191 DrwNo: 142.22.1747.48620 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.76 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.380 I 759 360 VERT(CL): 0.706 I 408 240 HORZ(LL): 0.059 A - - HORZ(TL): 0.110 A - - Creep Factor: 2.0 Max TC CSI: 0.932 Max BC CSI: 0.715 Max Web CSI: 0.844 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1541 /- /- /733 /86 /139 G 1542 /- /- /733 /86 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 255 -4139 C - D 254 -4138 B - C 254 -4133 D - E 255 -4143

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2,W8 2x4 SPF 2100f-1.8E;

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.95 33.87 4.20
23.75 0.00 23.46 1.95 33.87 4.20
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.38" DL: 0.33". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

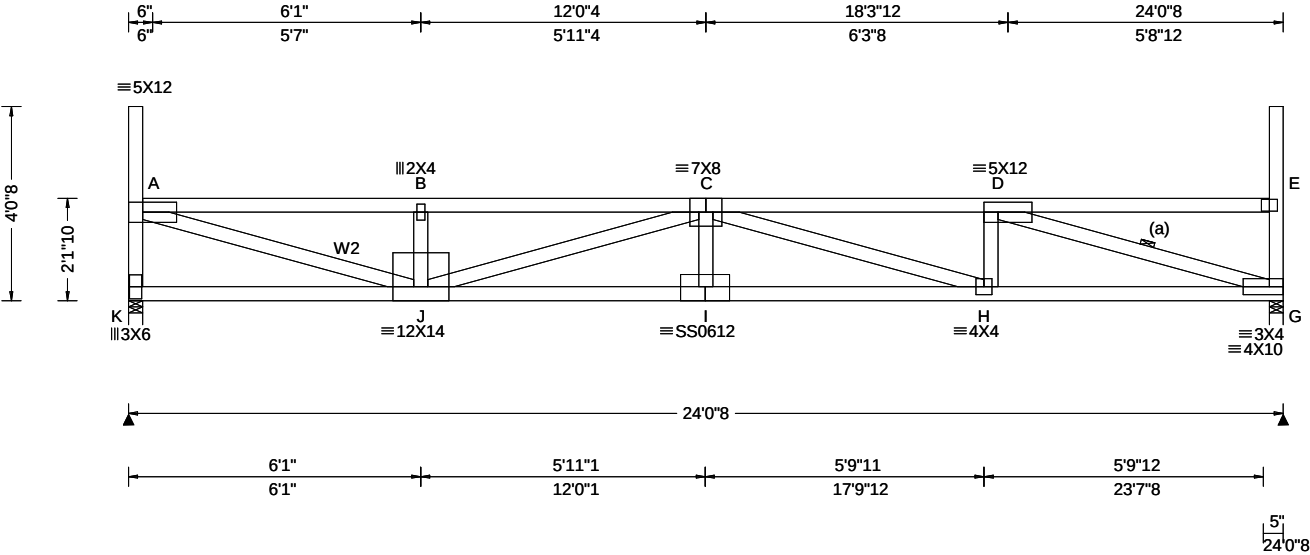


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Building 14

SEQN: 37871 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T34	Cust: R 9316 JRef:1XIQ93160003 T154 DrwNo: 142.22.1747.51550 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.14 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.363 I 795 360 VERT(CL): 0.674 I 428 240 HORZ(LL): 0.059 G - - HORZ(TL): 0.110 G - - Creep Factor: 2.0 Max TC CSI: 0.916 Max BC CSI: 0.703 Max Web CSI: 0.849 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1542 /- /- /732 /80 /137 G 1542 /- /- /732 /80 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 235 - 4051 C - D 231 - 4073 B - C 234 - 4046

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



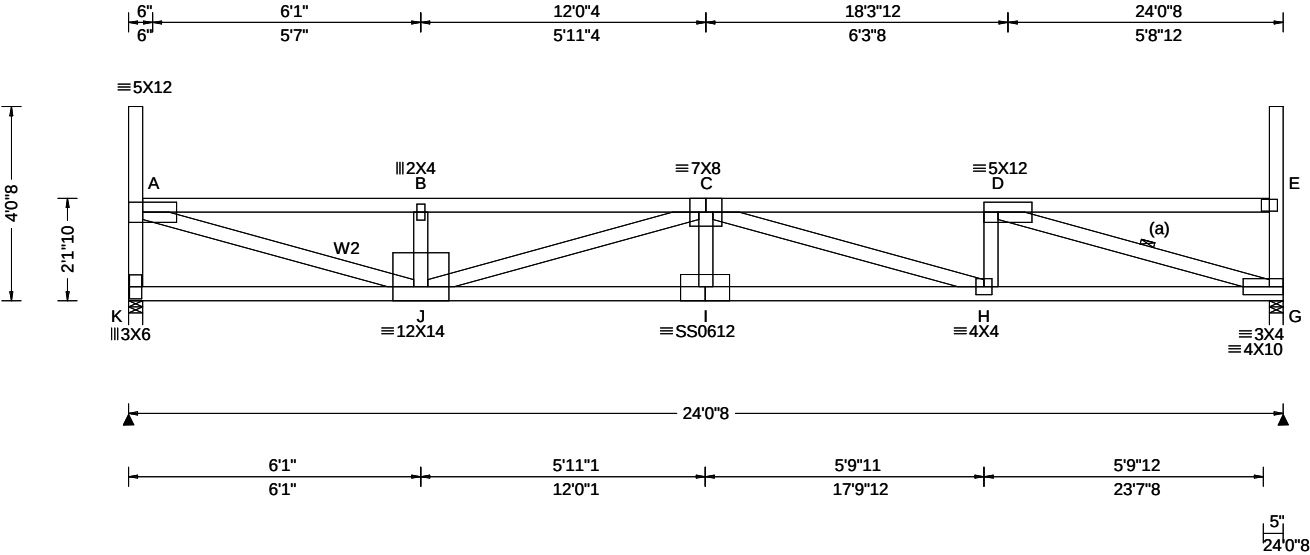
05/22/2022

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Building 14

SEQN: 37872 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T34A	Cust: R 9316 JRef:1XIQ93160003 T200 DrwNo: 142.22.1747.54217 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.80 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.363 I 795 360 VERT(CL): 0.674 I 428 240 HORZ(LL): 0.059 G - - HORZ(TL): 0.110 G - - Creep Factor: 2.0 Max TC CSI: 0.916 Max BC CSI: 0.703 Max Web CSI: 0.849 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL K 1542 /- /- /733 /86 /138 G 1542 /- /- /733 /86 /- Wind reactions based on MWFRS K Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings K & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 250 -4051 C - D 247 -4073 B - C 249 -4046

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W2 2x4 SPF 2100f-1.8E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.91	32.49	4.38
23.75	0.00	23.46	1.91	32.49	4.38

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.36" DL: 0.31". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



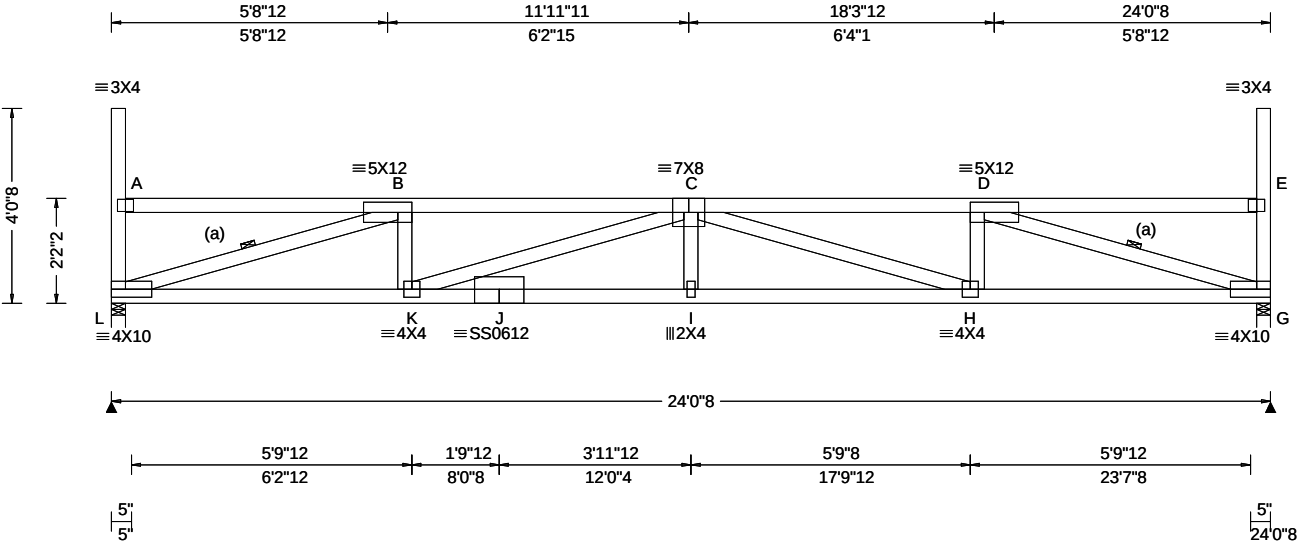
05/22/2022

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Building 14

SEQN: 37873 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T35	Cust: R 9316 JRef:1XIQ93160003 T156 DrwNo: 142.22.1747.57210 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.18 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.346 I 833 360 VERT(CL): 0.643 I 448 240 HORZ(LL): 0.073 G - - HORZ(TL): 0.136 G - - Creep Factor: 2.0 Max TC CSI: 0.679 Max BC CSI: 0.683 Max Web CSI: 0.833 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1541 /- /- /732 /80 /135 G 1541 /- /- /732 /80 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 225 -3982 C - D 225 -3981

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



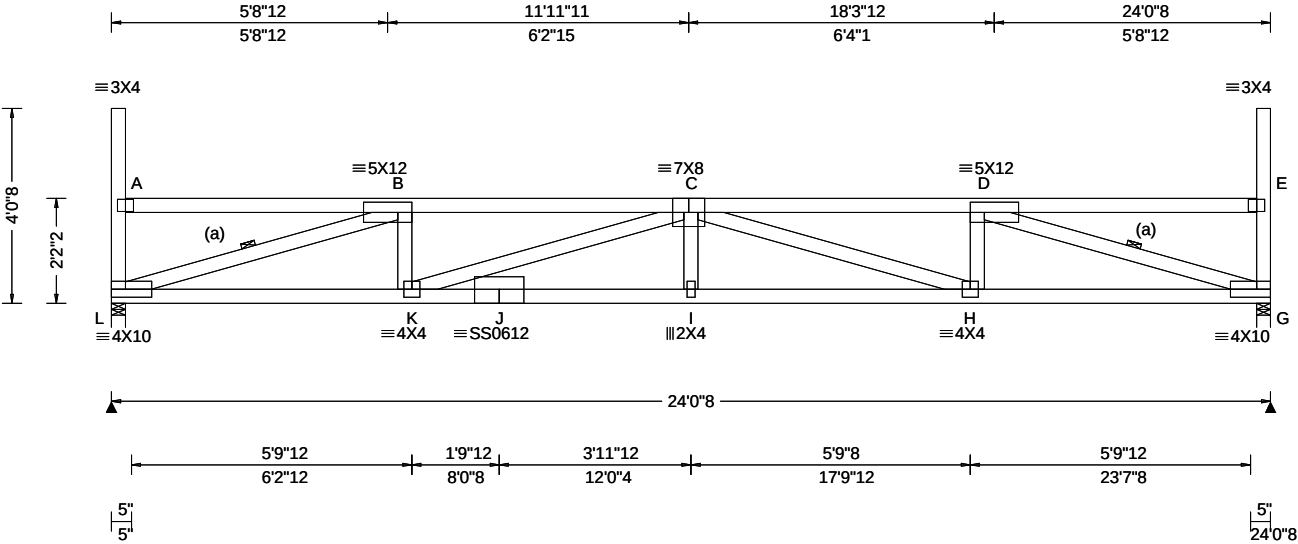
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Building 14

SEQN: 37874 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220700 Customer: MCCAMBRIDGE BROTHERS CONS Address: 2100 NW Lowenstein Dr Truss Label: T35A	Cust: R 9316 JRef: 1XIQ93160003 T205 DrwNo: 142.22.1748.00200 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.84 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.346 I 833 360 VERT(CL): 0.643 I 448 240 HORZ(LL): 0.073 G - - HORZ(TL): 0.136 G - - Creep Factor: 2.0 Max TC CSI: 0.679 Max BC CSI: 0.683 Max Web CSI: 0.833 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 /- /- /732 /86 /136 G 1541 /- /- /732 /86 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 240 -3982 C - D 240 -3981

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.86	31.10	4.58
23.75	0.00	23.46	1.86	31.10	4.58

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.35" DL: 0.30". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



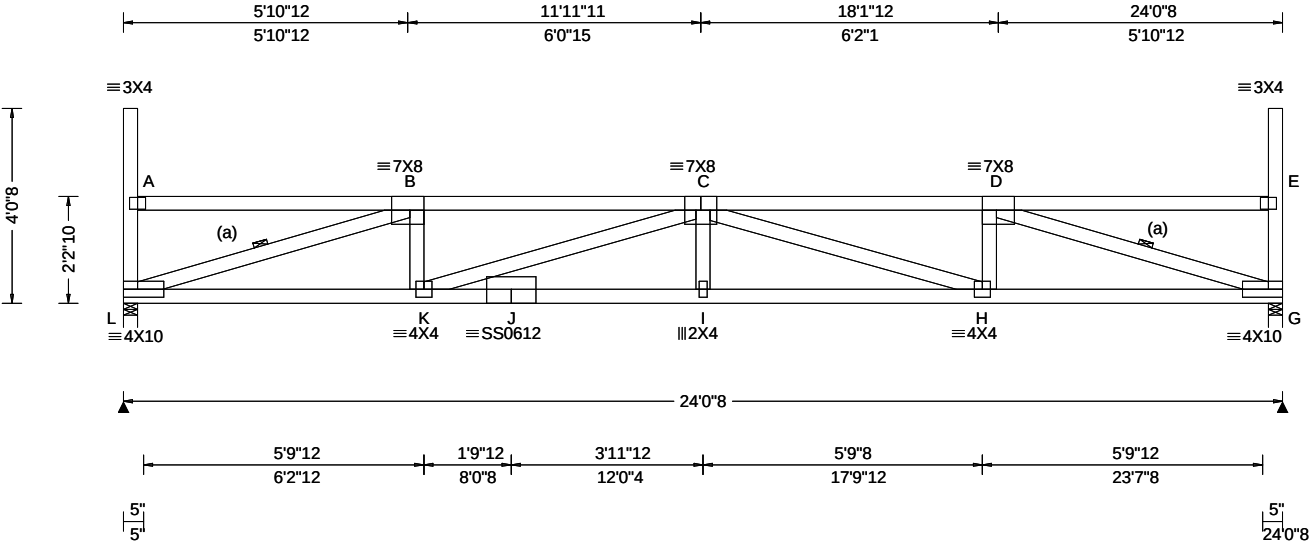
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Building 14

SEQN: 37875 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T36	Cust: R 9316 JRef:1XIQ93160003 T152 DrwNo: 142.22.1748.03030 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.332 I 868 360 VERT(CL): 0.617 I 467 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.134 G - - Creep Factor: 2.0 Max TC CSI: 0.656 Max BC CSI: 0.673 Max Web CSI: 0.820 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 /- /- /732 /80 /134 G 1541 /- /- /732 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 221 - 3898 C - D 221 - 3897

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



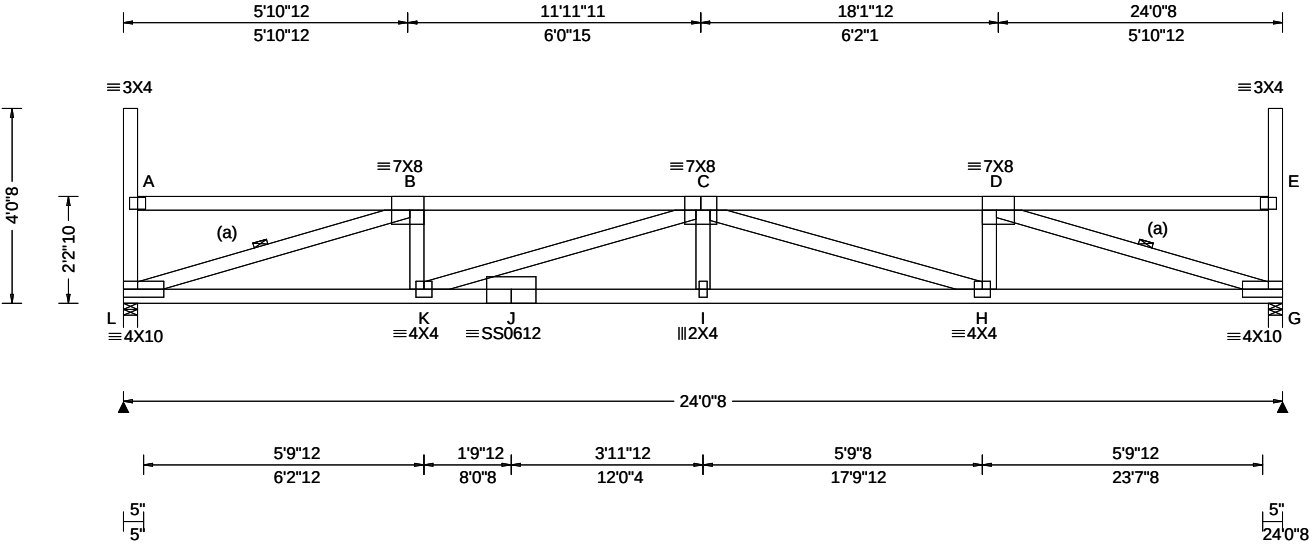
05/22/2022

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Building 14

SEQN: 37876 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T36A	Cust: R 9316 JRef:1XIQ93160003 T213 DrwNo: 142.22.1748.05820 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.89 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.332 I 868 360 VERT(CL): 0.617 I 467 240 HORZ(LL): 0.072 G - - HORZ(TL): 0.134 G - - Creep Factor: 2.0 Max TC CSI: 0.656 Max BC CSI: 0.673 Max Web CSI: 0.820 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 /- /- /732 /86 /135 G 1541 /- /- /732 /86 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 236 -3898 C - D 236 -3897

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.82	29.72	4.79
23.75	0.00	23.46	1.82	29.72	4.79

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.33" DL: 0.29". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



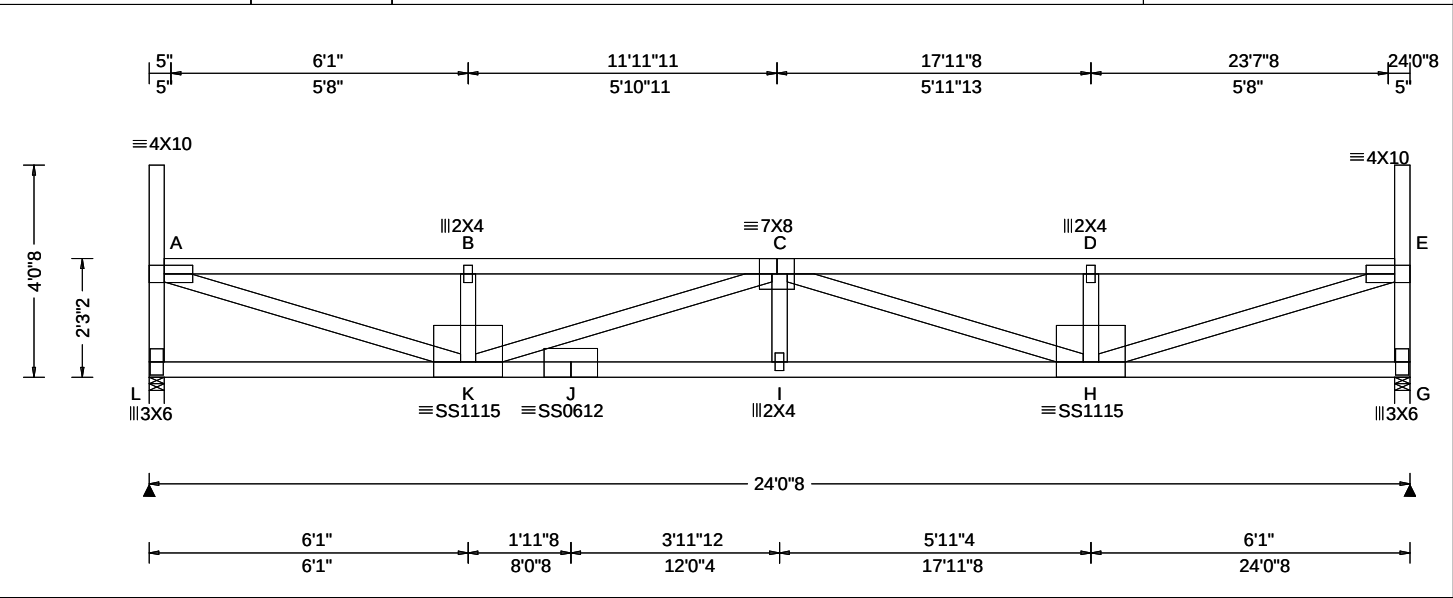
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Building 14

SEQN: 37877 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T37	Cust: R 9316 JRef:1XIQ93160003 T160 DrwNo: 142.22.1748.08630 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
				Gravity			Non-Gravity				
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.336 I 859 360	L	1541	/-	/-	/732	/80	/133	
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.624 I 462 240	G	1541	/-	/-	/732	/80	/-	
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.054 A - -	Wind reactions based on MWFRS							
Des Ld: 65.00	EXP: B Kzt: NA	Building Code: IBC 2018	HORZ(TL): 0.101 A - -	L Brg Wid = 3.5 Min Req = 2.0 (Truss)							
	Creep Factor: 2.0		G Brg Wid = 3.5 Min Req = 2.0 (Truss)								
	Max TC CSI: 0.869		Bearings L & G are a rigid surface.								
	Max BC CSI: 0.662		Members not listed have forces less than 375#								
	Max Web CSI: 0.945		Maximum Top Chord Forces Per Ply (lbs)								
NCBCLL: 0.00	Mean Height: 21.26 ft	TPI Std: 2014	VIEW Ver: 21.02.00.1005.17	Chords		Tens.Comp.		Chords		Tens. Comp.	
Soffit: 2.00	TCDL: 5.0 psf	Rep Fac: Yes									
Load Duration: 1.15	BCDL: 3.0 psf	FT/RT:20(0)/10(0)									
	MWFRS Parallel Dist: h/2 to h	Plate Type(s):									
	C&C Dist a: 3.00 ft	WAVE, 18SS									
Spacing: 24.0 "	Loc. from endwall: Any	Wind Duration: 1.60									
	GCp: 0.18										

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;				Maximum Bot Chord Forces Per Ply (lbs)			
Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.78 28.34 5.03 23.75 0.00 23.46 1.78 28.34 5.03 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.				Chords	Tens.Comp.	Chords	Tens. Comp.
Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.				K - J	4892 - 281	I - H	4892 - 281
Deflection Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.				J - I	4892 - 281		

Additional Notes Truss must be installed as shown with top chord up.				Maximum Web Forces Per Ply (lbs)			
				Webs	Tens.Comp.	Webs	Tens. Comp.
				L - A	94 - 1381	C - H	123 - 1166
				A - K	3851 - 220	H - E	3850 - 221
				K - C	127 - 1165	E - G	94 - 1380

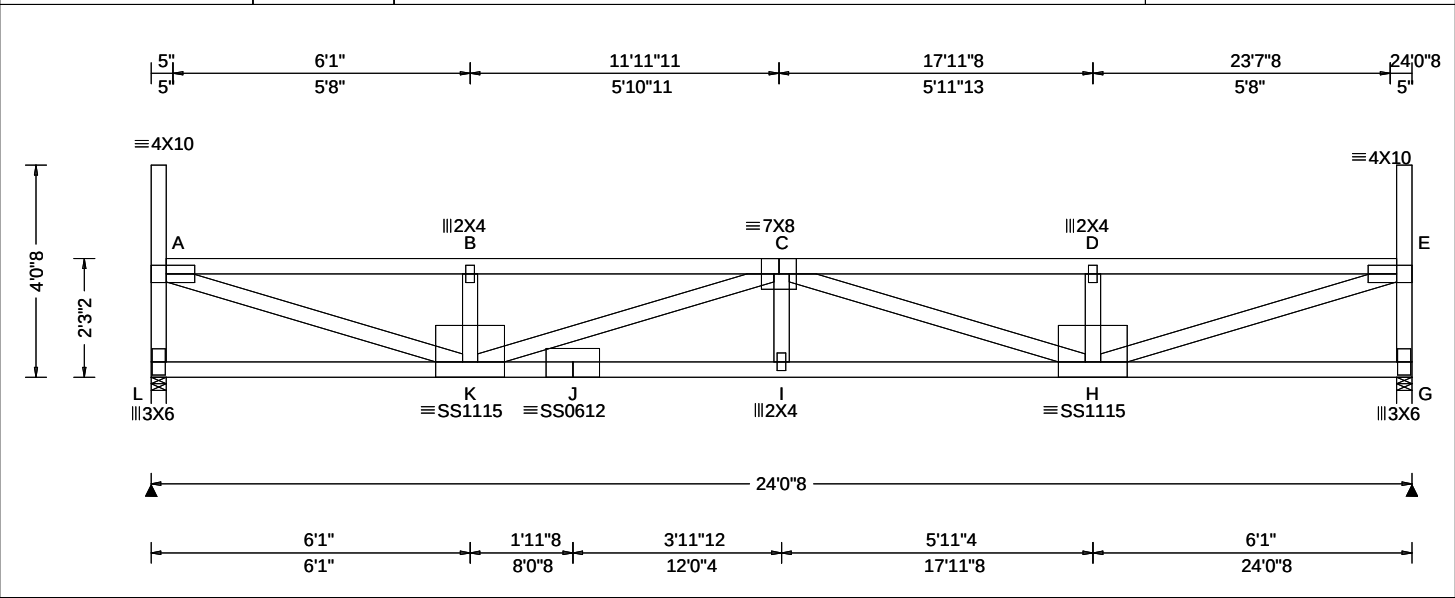


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37878 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T37A	Cust: R 9316 JRef:1XIQ93160003 T204 DrwNo: 142.22.1748.11457 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.93 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.336 I 859 360 VERT(CL): 0.624 I 462 240 HORZ(LL): 0.054 A - - HORZ(TL): 0.101 A - - Creep Factor: 2.0 Max TC CSI: 0.869 Max BC CSI: 0.662 Max Web CSI: 0.945 VIEW Ver: 21.02.00.1005.17	Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				L	1541	/-	/-	/732	/86	/134
	G	1541	/-	/-	/732	/86	/-			
	Wind reactions based on MWFRS									
	L	Brg Wid = 3.5		Min Req = 2.0 (Truss)						
	G	Brg Wid = 3.5		Min Req = 2.0 (Truss)						
	Bearings L & G are a rigid surface.									
	Members not listed have forces less than 375#									
	Maximum Top Chord Forces Per Ply (lbs)									
	Chords		Tens.Comp.		Chords		Tens. Comp.			
	A - B	213 - 3791		C - D		212 - 3785				
	B - C	212 - 3796		D - E		213 - 3790				

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4892 - 298 I - H 4892 - 298 J - I 4892 - 298
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.78 28.34 5.03 23.75 0.00 23.46 1.78 28.34 5.03 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 100 - 1381 C - H 124 - 1166 A - K 3851 - 235 H - E 3850 - 235 K - C 128 - 1165 E - G 100 - 1380
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Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.	
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Deflection Max JT VERT DEFL: LL: 0.34" DL: 0.29". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.	
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Additional Notes Truss must be installed as shown with top chord up.	
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05/22/2022

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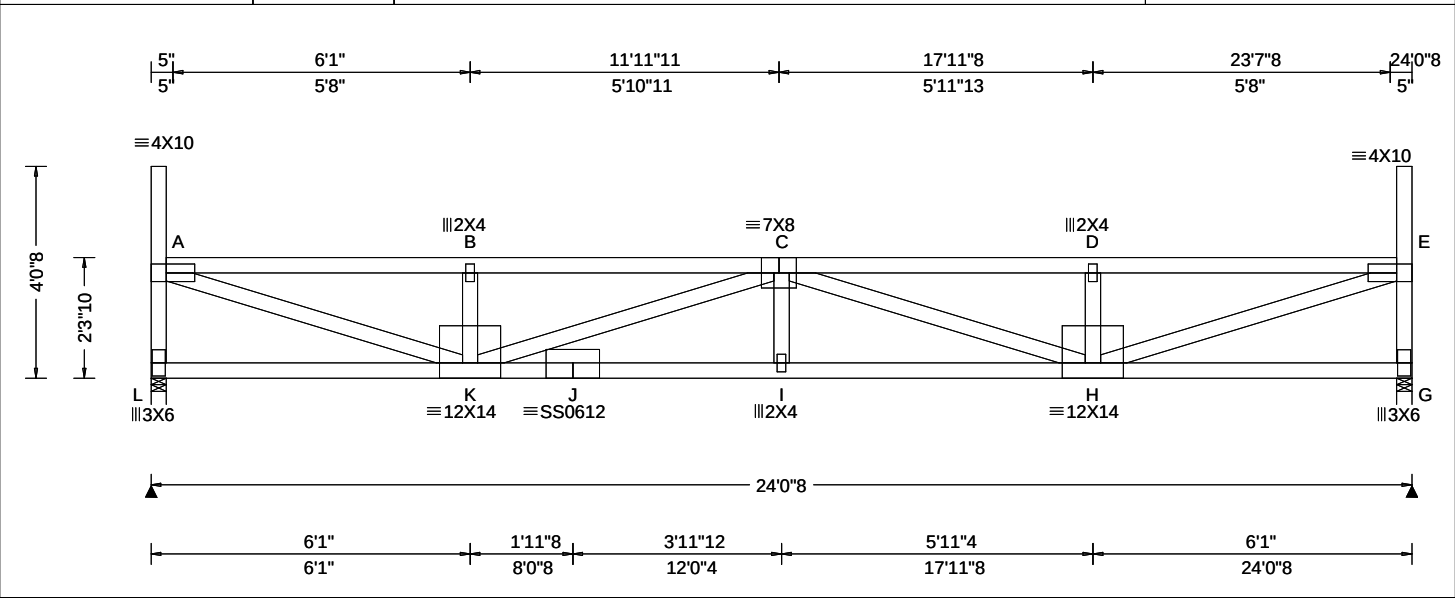
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37879 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T38	Cust: R 9316 JRef:1XIQ93160003 T162 DrwNo: 142.22.1748.14423 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.30 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.323 I 893 360 VERT(CL): 0.600 I 480 240 HORZ(LL): 0.053 A - - HORZ(TL): 0.099 A - - Creep Factor: 2.0 Max TC CSI: 0.854 Max BC CSI: 0.652 Max Web CSI: 0.928 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1541 -/- /- /732 /80 /132 G 1541 -/- /- /732 /80 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 195 -3715 C - D 194 -3709 B - C 194 -3710 D - E 195 -3714

Lumber Top chord: 2x4 SPF #1/#2; Bot chord: 2x4 SPF 2100f-1.8E; Webs: 2x4 SPF #1/#2;	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. K - J 4792 -275 I - H 4792 -275 J - I 4792 -275
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Loading Drifting snow load has been considered for only in plane loading as follows: Location Lu1 Lu2 Height Pd W 0.29 0.00 23.46 1.74 26.95 5.28 23.75 0.00 23.46 1.74 26.95 5.28 Where: Lu1 = leeward distance, Lu2 = windward distance Pd = max applied load, W = length of applied load.	Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. L - A 94 -1381 C - H 112 -1143 A - K 3781 -216 H - E 3780 -217 K - C 115 -1142 E - G 94 -1381
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Wind Wind loads based on MWFRS with additional C&C member design. End verticals exposed to wind pressure. Deflection meets L/360.
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Deflection Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.
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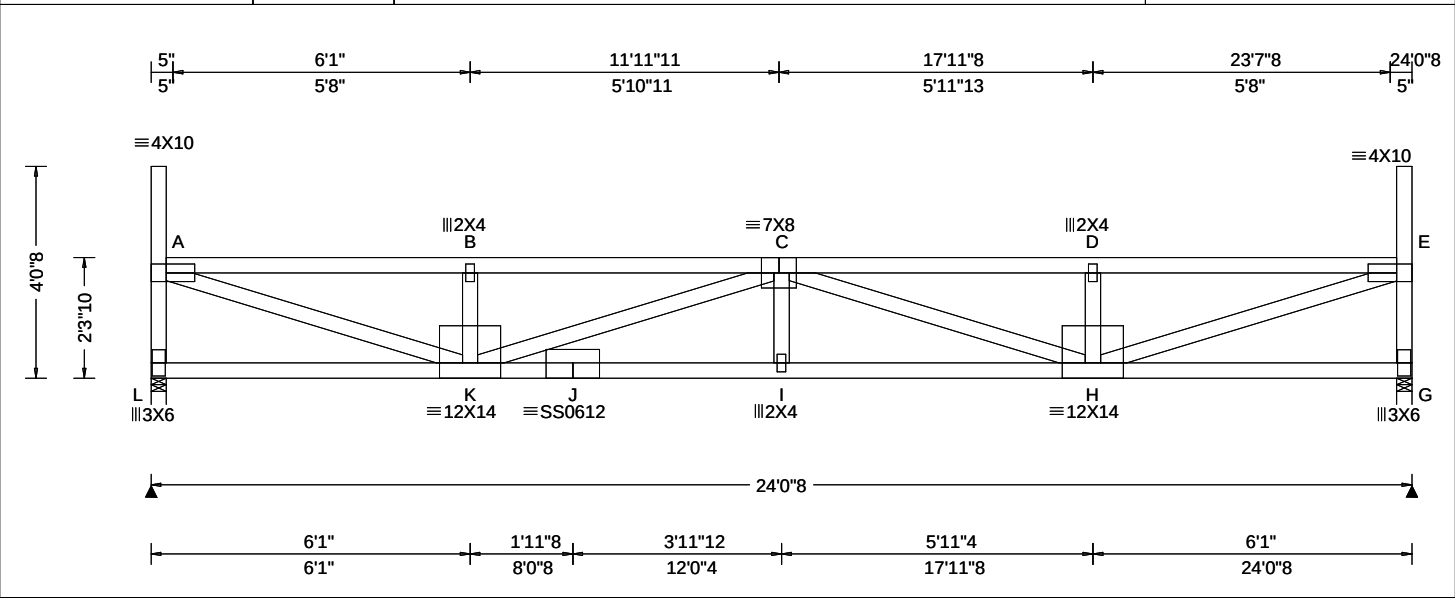
Additional Notes Truss must be installed as shown with top chord up.
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Building 14

SEQN: 37880 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T38A	Cust: R 9316 JRef:1XIQ93160003 T209 DrwNo: 142.22.1748.17110 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.97 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.323 I 893 360 VERT(CL): 0.600 I 480 240 HORZ(LL): 0.053 A - - HORZ(TL): 0.099 A - - Creep Factor: 2.0 Max TC CSI: 0.854 Max BC CSI: 0.652 Max Web CSI: 0.928 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1541 /- /- /732 /86 /133 G 1541 /- /- /732 /86 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 209 -3715 C - D 208 -3709 B - C 208 -3710 D - E 209 -3714

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.74 26.95 5.28
23.75 0.00 23.46 1.74 26.95 5.28
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.32" DL: 0.28". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



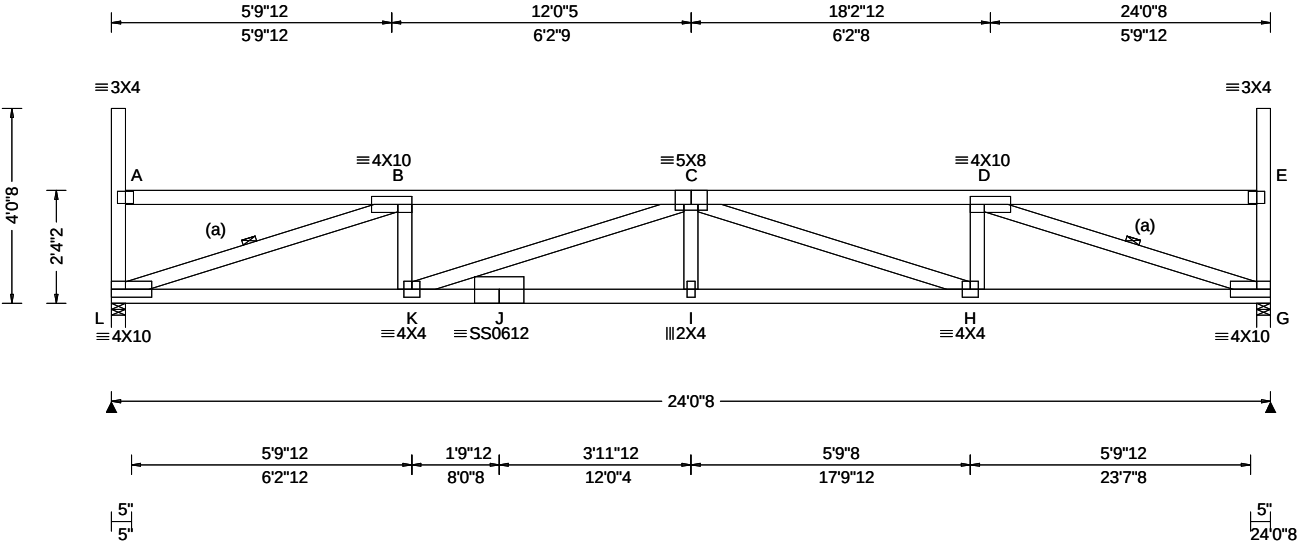
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37881 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T39	Cust: R 9316 JRef:1XIQ93160003 T158 DrwNo: 142.22.1748.20577 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.296 I 976 360 VERT(CL): 0.549 I 525 240 HORZ(LL): 0.068 G - - HORZ(TL): 0.126 G - - Creep Factor: 2.0 Max TC CSI: 0.598 Max BC CSI: 0.650 Max Web CSI: 0.783 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /81 /131 G 1542 /- /- /732 /81 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 188 -3671 C - D 189 -3670

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



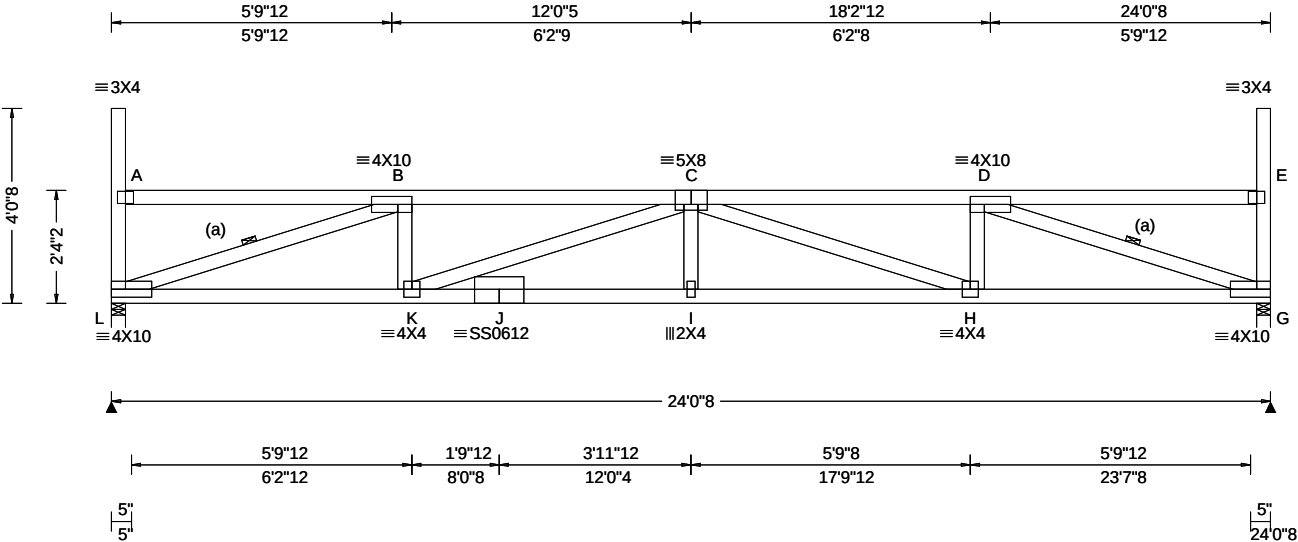
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Building 14

SEQN: 37882 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T39A	Cust: R 9316 JRef:1XIQ93160003 T199 DrwNo: 142.22.1748.23230 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.01 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.296 I 976 360 VERT(CL): 0.549 I 525 240 HORZ(LL): 0.068 G - - HORZ(TL): 0.126 G - - Creep Factor: 2.0 Max TC CSI: 0.598 Max BC CSI: 0.650 Max Web CSI: 0.783 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1542 /- /- /732 /87 /132 G 1542 /- /- /732 /87 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 202 -3671 C - D 202 -3670

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.70	25.57	5.57
23.75	0.00	23.46	1.70	25.57	5.57

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.30" DL: 0.25". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



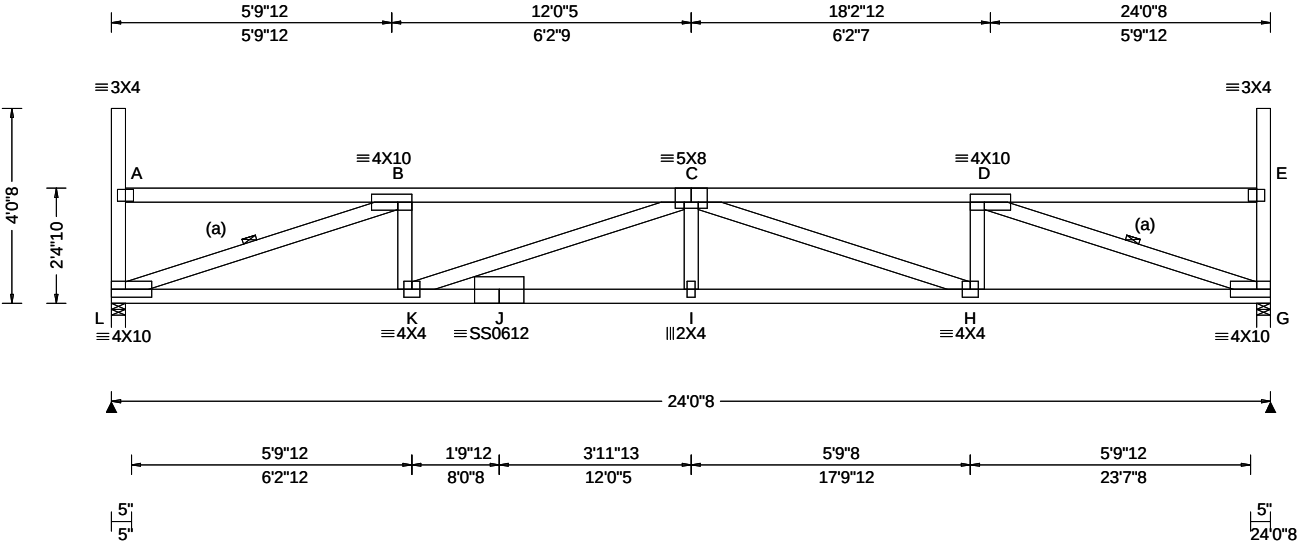
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Building 14

SEQN: 37883 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T40	Cust: R 9316 JRef:1XIQ93160003 T155 DrwNo: 142.22.1748.26080 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)										
TCLL:	20.00	Wind Std:	ASCE 7-16	Pg: 20.0	Ct: 1.1	CAT: II	PP Deflection in	loc	L/def	L/#	Gravity			Non-Gravity				
TCDL:	15.00	Speed:	109 mph	Pf: 15.4		Ce: 1.0	VERT(LL):	0.285	I	999	360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure:	Closed	Lu: -		Cs: 1.00	VERT(CL):	0.529	I	545	240	L	1542	/-	/-	/732	/81	/129
BCDL:	15.00	Risk Category:	II	Snow Duration:	1.15		HORZ(LL):	0.066	G	-	-	G	1542	/-	/-	/732	/81	/-
Des Ld:	65.00	EXP:	B Kzt: NA				HORZ(TL):	0.123	G	-	-	Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height:	21.39 ft	Building Code:			Creep Factor:	2.0		L Brg Wid = 3.5 Min Req = 2.0 (Truss)								
Soffit:	2.00	TCDL:	5.0 psf	IBC 2018			Max TC CSI:	0.583		G Brg Wid = 3.5 Min Req = 2.0 (Truss)								
Load Duration:	1.15	BCDL:	3.0 psf	TPI Std:	2014		Max BC CSI:	0.643		Bearings L & G are a rigid surface.								
Spacing:	24.0 "	MWFRS Parallel Dist:	h/2 to h	Rep Fac:	Yes		Max Web CSI:	0.772		Members not listed have forces less than 375#								
		C&C Dist a:	3.00 ft	FT/RT:	20(0)/10(0)						Maximum Top Chord Forces Per Ply (lbs)							
		Loc. from endwall:	not in 14.50 ft	Plate Type(s):														
		GCpi:	0.18															
		Wind Duration:	1.60	WAVE, 18SS														

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



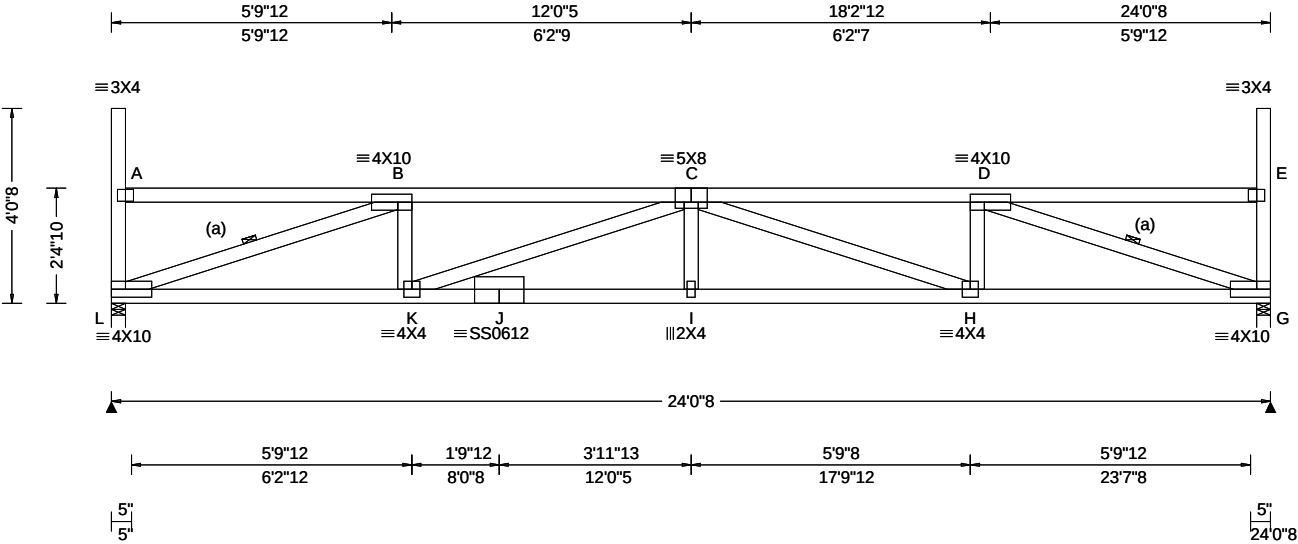
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Building 14

SEQN: 37884 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T40A	Cust: R 9316 JRef:1XIQ93160003 T211 DrwNo: 142.22.1748.29127 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.05 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/defl L/# VERT(LL): 0.285 I 999 360 VERT(CL): 0.529 I 545 240 HORZ(LL): 0.066 G - - HORZ(TL): 0.123 G - - Creep Factor: 2.0 Max TC CSI: 0.583 Max BC CSI: 0.643 Max Web CSI: 0.772 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /87 /131 G 1542 /- /- /732 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -3600 C - D 199 -3598

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.66	24.19	5.83
23.75	0.00	23.46	1.66	24.19	5.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.28" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



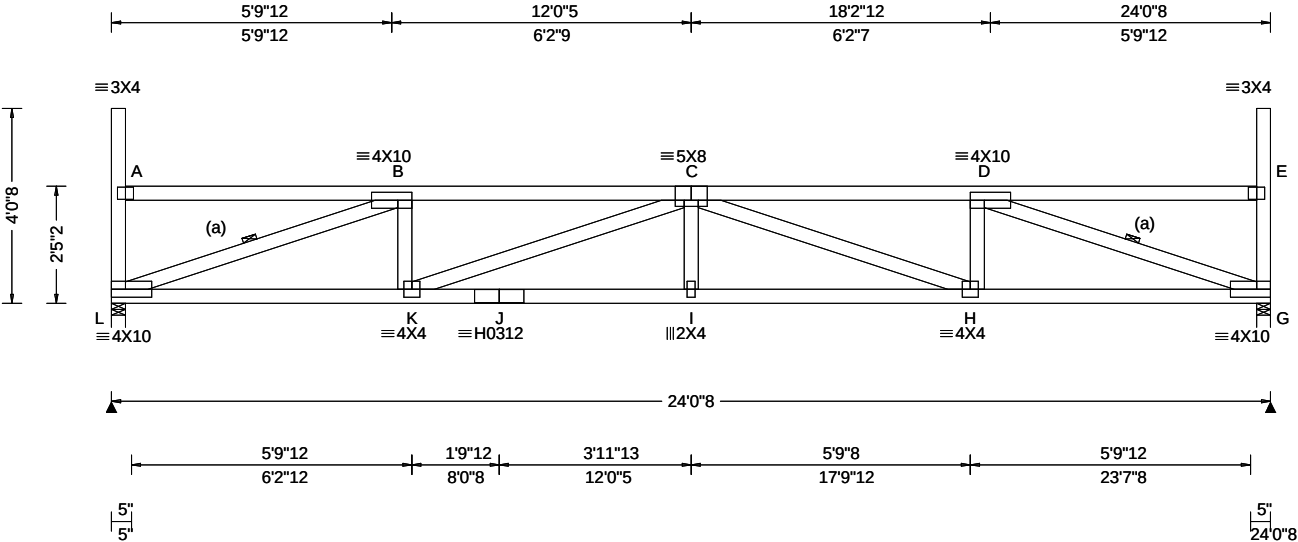
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37885 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T41	Cust: R 9316 JRef:1XIQ93160003 T151 DrwNo: 142.22.1748.32087 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.43 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.274 I 999 360 VERT(CL): 0.510 I 565 240 HORZ(LL): 0.065 G - - HORZ(TL): 0.121 G - - Creep Factor: 2.0 Max TC CSI: 0.568 Max BC CSI: 0.637 Max Web CSI: 0.761 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1542 /- /- /732 /81 /128 G 1542 /- /- /732 /81 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 182 -3531 C - D 182 -3530

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



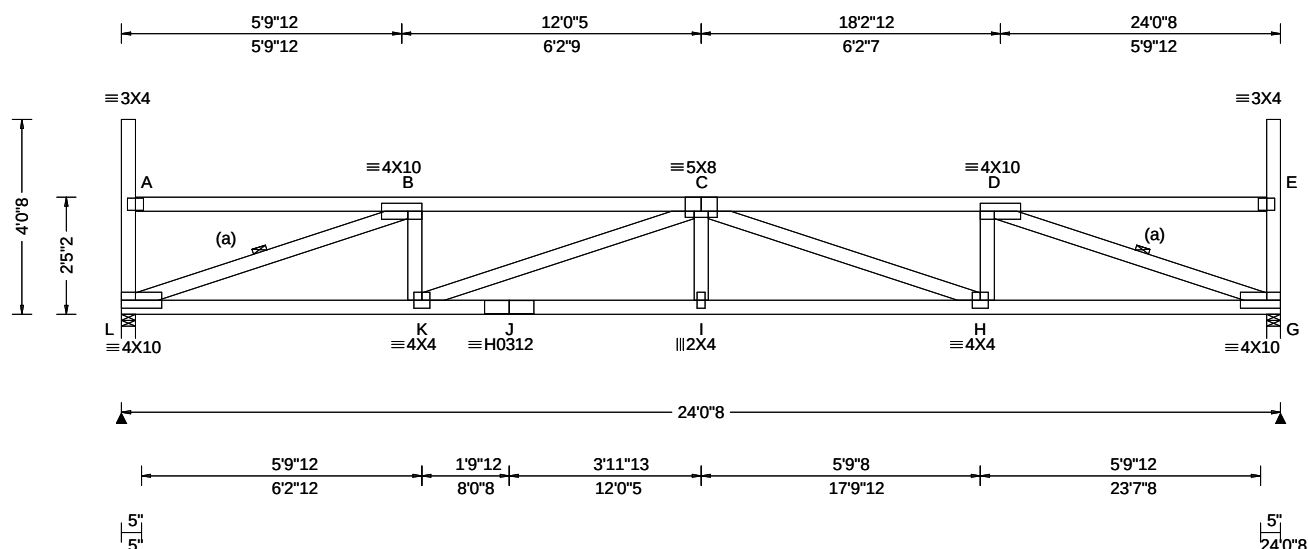
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Building 14

SEQN: 37886	FLAT	Ply: 1	Job Number: JB-220700	Cust: R 9316 JRef:1XfQ93160003 T201
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1748.35043
			Truss Label: T41A	/ FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.274 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.510 I 565 240	L 1542 /- /- /732 /87 /129
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.065 G - -	G 1542 /- /- /732 /87 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.121 G - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.09 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.568	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.637	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.761	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	WAVE. HS	VIEW Ver: 21.02.00.1005.17	B - C 195 -3531 C - D 196 -3530
	Wind Duration: 1.60			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.61	22.80	5.50
23.75	0.00	23.46	1.61	22.80	5.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.27" DL: 0.24". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

05/22/2022
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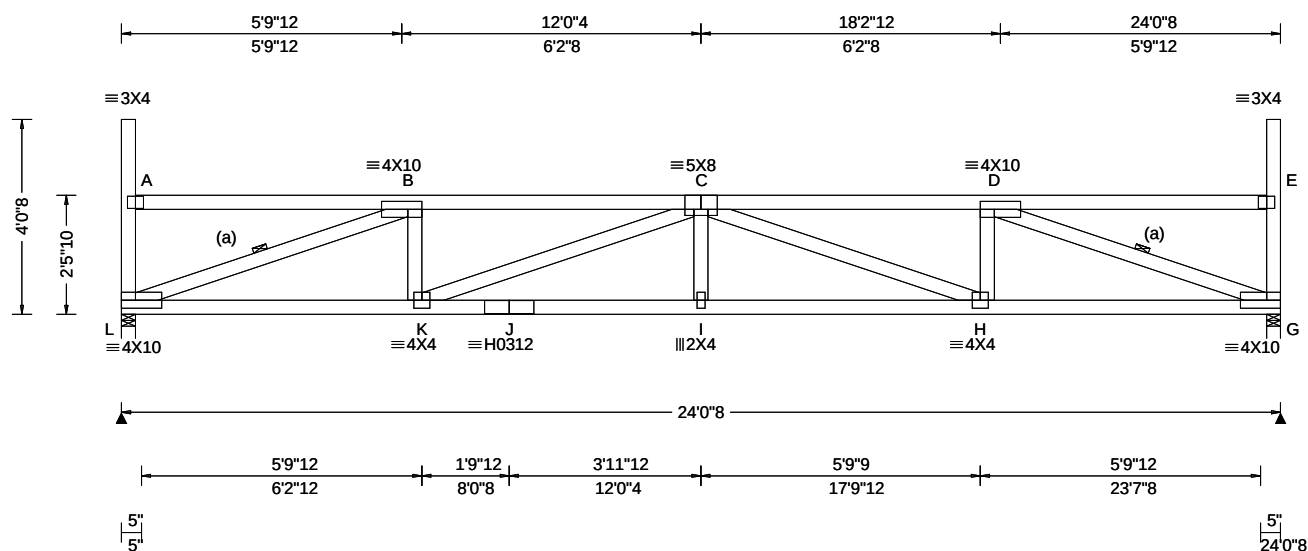
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 37887	FLAT	Ply: 1	Job Number: JB-220700	Cust: R 9316 JRef:1XIQ93160003 T164
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1748.37777
			Truss Label: T42	/ FK 05/22/2022

[illegible]

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

(a) Continuous lateral restraint equally spaced on member.

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



05/22/2022

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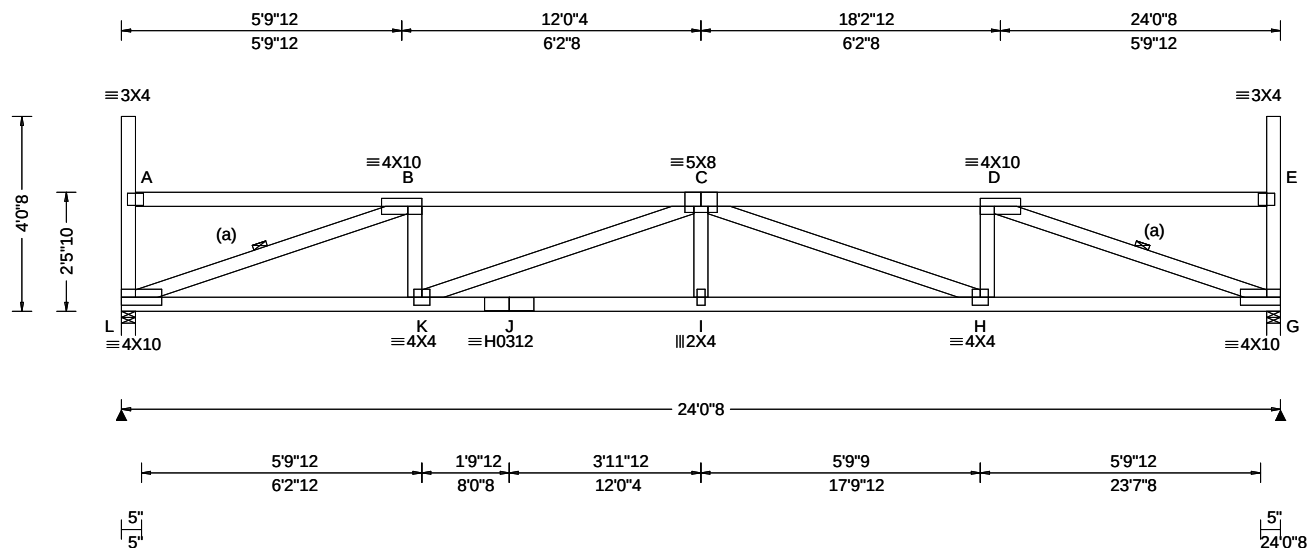
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SEQN: 37888	FLAT	Ply: 1	Job Number: JB-220700	Cust: R 9316 JRef:1XIQ93160003 T195
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1748.40637
			Truss Label: T42A	/ FK 05/22/2022

[illegible]

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

(a) Continuous lateral restraint equally spaced on member.

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.57	21.42	5.16
23.75	0.00	23.46	1.57	21.42	5.16

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Truss must be installed as shown with top chord up.



05/22/2022

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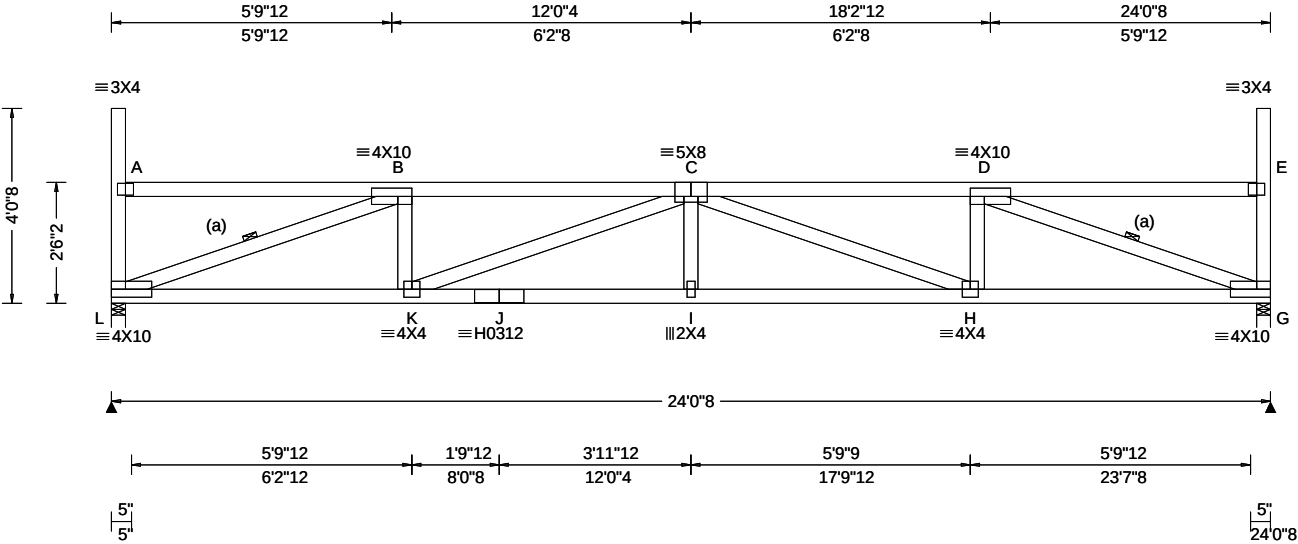
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37889 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T43	Cust: R 9316 JRef:1XIQ93160003 T161 DrwNo: 142.22.1748.43550 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.51 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.255 I 999 360 VERT(CL): 0.475 I 607 240 HORZ(LL): 0.063 G - - HORZ(TL): 0.116 G - - Creep Factor: 2.0 Max TC CSI: 0.540 Max BC CSI: 0.625 Max Web CSI: 0.741 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1542 /- /- /731 /81 /126 G 1542 /- /- /731 /81 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 176 - 3401 C - D 177 - 3400

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



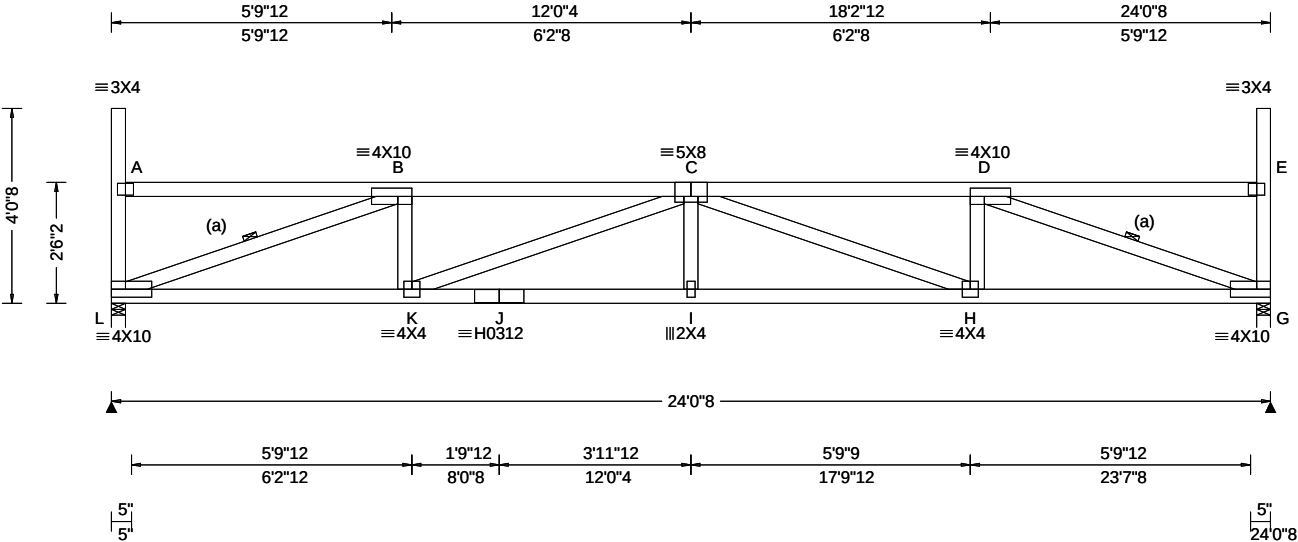
05/22/2022

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Building 14

SEQN: 37890 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T43A	Cust: R 9316 JRef:1XIQ93160003 T198 DrwNo: 142.22.1748.46480 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.255 I 999 360	L	1542	/-	/-	/732	/87	/127
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.475 I 607 240	G	1542	/-	/-	/732	/87	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.063 G - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.116 G - -	L Brg Wid = 3.5 Min Req = 2.0 (Truss)						
	Creep Factor: 2.0		G Brg Wid = 3.5 Min Req = 2.0 (Truss)							
NCBCLL: 0.00	Mean Height: 22.18 ft	IBC 2018	Max TC CSI: 0.540	Bearings L & G are a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.625	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	Rep Fac: Yes	Max Web CSI: 0.741	Maximum Top Chord Forces Per Ply (lbs)						
	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)	VIEW Ver: 21.02.00.1005.17	Chords	Tens.Comp.		Chords	Tens. Comp.		
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Plate Type(s):								
	Loc. from endwall: Any	WAVE, HS		B - C	211	- 3401	C - D	211	- 3400	
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.53	20.04	4.83
23.75	0.00	23.46	1.53	20.04	4.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



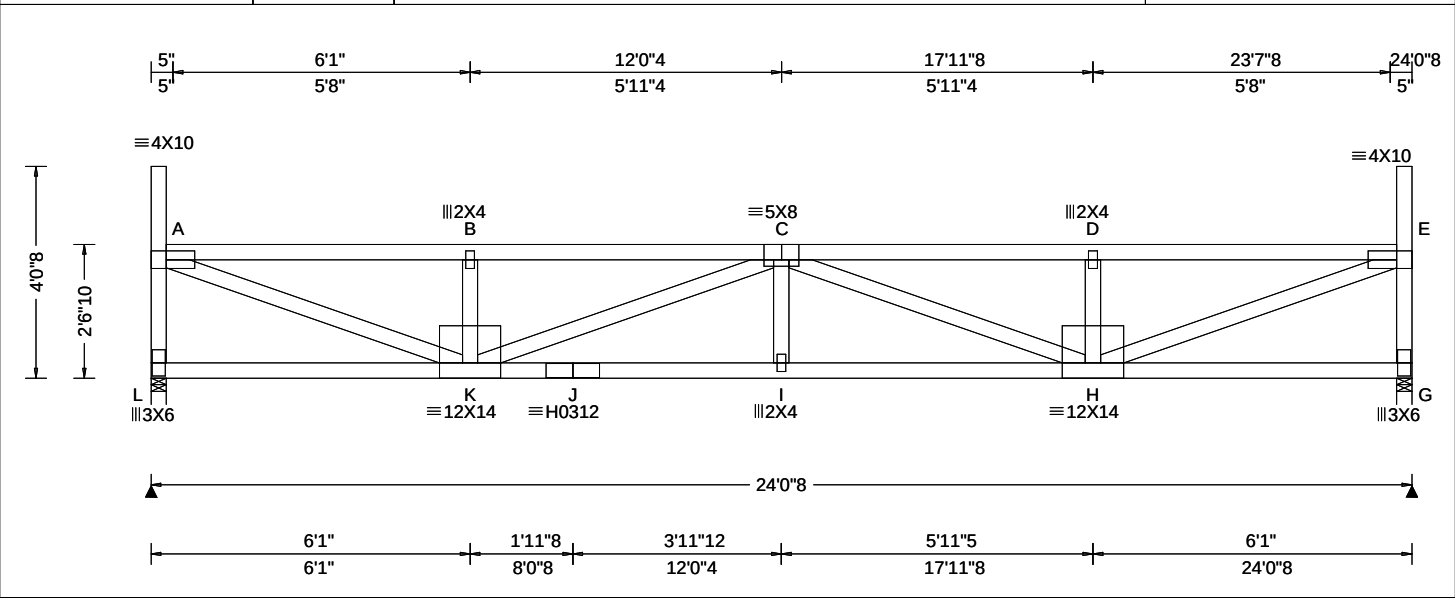
05/22/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37891 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T44	Cust: R 9316 JRef:1XIQ93160003 T143 DrwNo: 142.22.1748.49320 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.55 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.260 I 999 360 VERT(CL): 0.482 I 597 240 HORZ(LL): 0.048 A - - HORZ(TL): 0.089 A - - Creep Factor: 2.0 Max TC CSI: 0.693 Max BC CSI: 0.608 Max Web CSI: 0.838 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /82 /125 G 1542 /- /- /731 /82 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 178 -3318 C - D 177 -3312 B - C 177 -3313 D - E 178 -3317

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.49 18.65 4.50
23.75 0.00 23.46 1.49 18.65 4.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



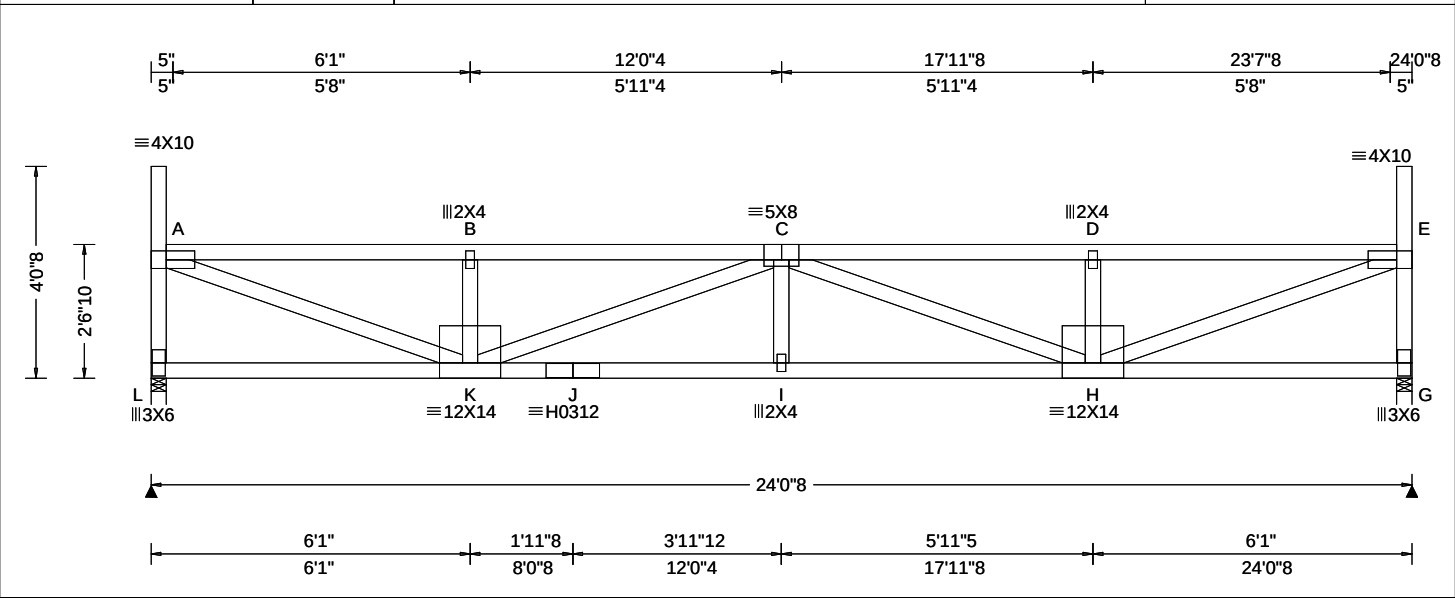
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37892 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T44A	Cust: R 9316 JRef:1XIQ93160003 T202 DrwNo: 142.22.1748.52203 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.22 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.260 I 999 360 VERT(CL): 0.482 I 597 240 HORZ(LL): 0.048 A - - HORZ(TL): 0.089 A - - Creep Factor: 2.0 Max TC CSI: 0.693 Max BC CSI: 0.608 Max Web CSI: 0.838 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /732 /87 /126 G 1542 /- /- /732 /87 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 211 - 3318 C - D 211 - 3312 B - C 211 - 3313 D - E 211 - 3317

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.49 18.65 4.50
23.75 0.00 23.46 1.49 18.65 4.50
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



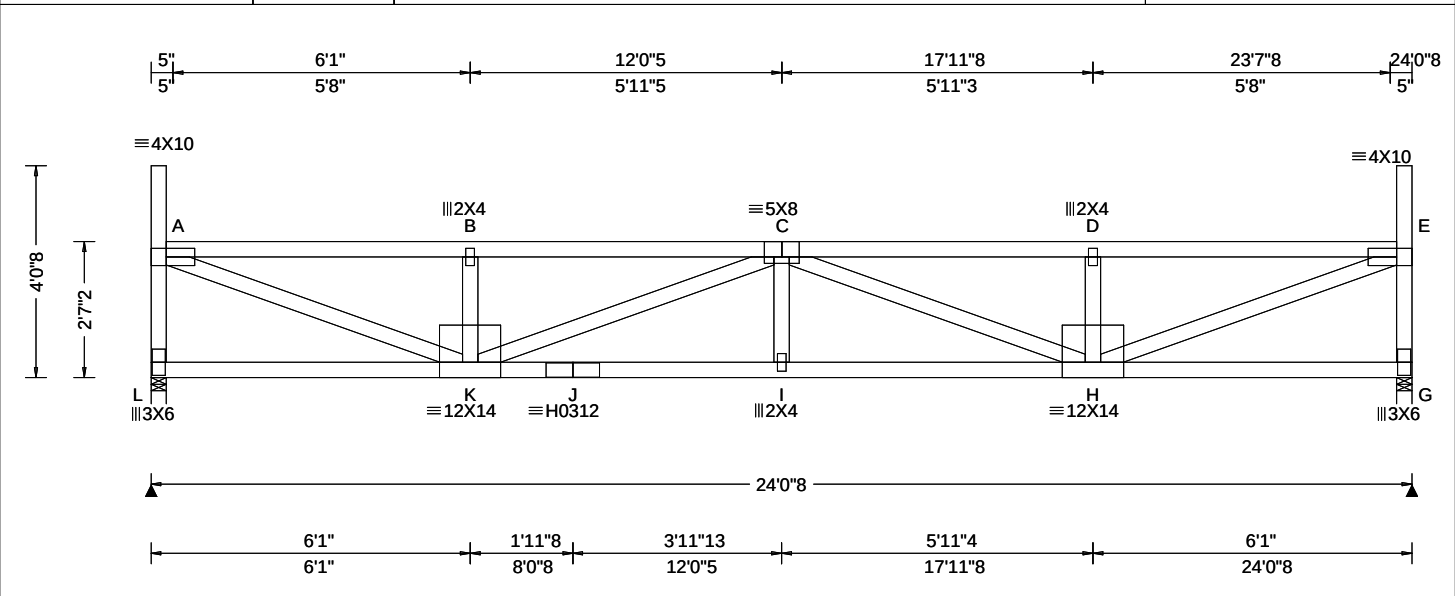
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Building 14

SEQN: 37893 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T45	Cust: R 9316 JRef:1XIQ93160003 T153 DrwNo: 142.22.1748.54930 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.59 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.251 I 999 360 VERT(CL): 0.466 I 618 240 HORZ(LL): 0.047 A - - HORZ(TL): 0.088 A - - Creep Factor: 2.0 Max TC CSI: 0.676 Max BC CSI: 0.602 Max Web CSI: 0.825 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /82 /124 G 1542 /- /- /731 /82 /- Non-Gravity Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 175 -3260 C - D 174 -3253 B - C 175 -3255 D - E 175 -3258

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.45 17.27 4.16
23.75 0.00 23.46 1.45 17.27 4.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



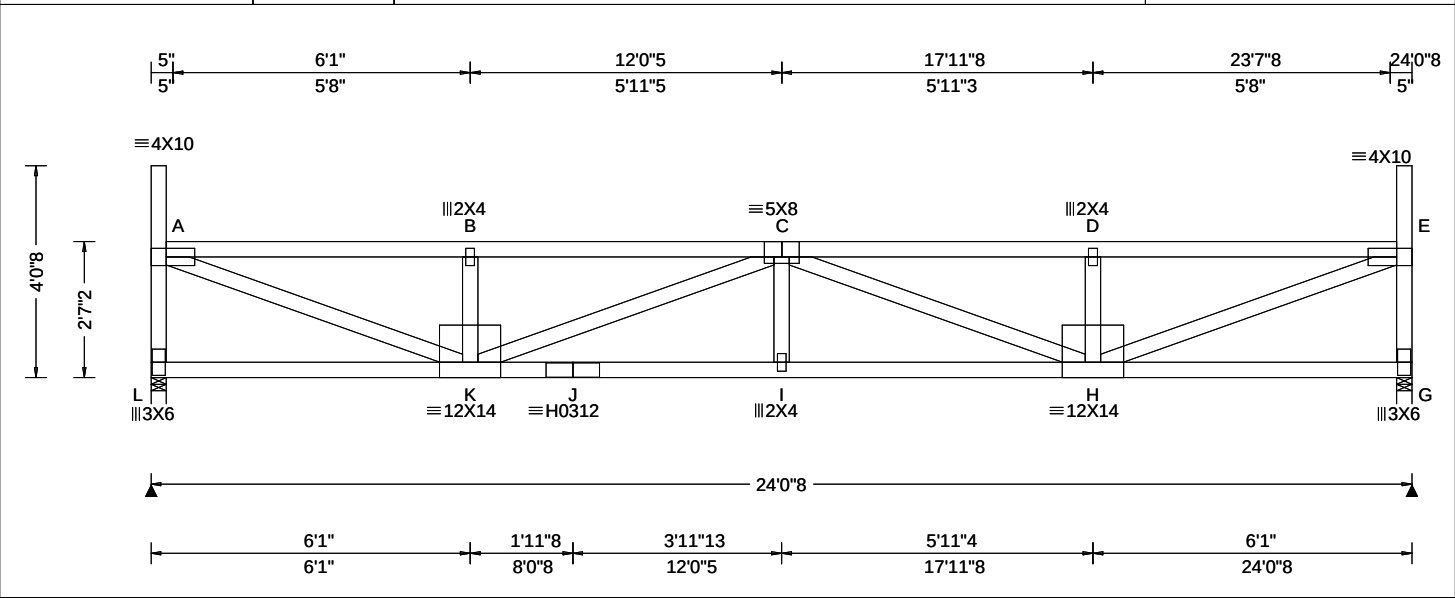
05/22/2022

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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37894 FROM:	FLAT Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T45A	Cust: R 9316 JRef:1XIQ93160003 T196 DrwNo: 142.22.1748.57717 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.26 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.251 I 999 360 VERT(CL): 0.466 I 618 240 HORZ(LL): 0.047 A - - HORZ(TL): 0.088 A - - Creep Factor: 2.0 Max TC CSI: 0.676 Max BC CSI: 0.602 Max Web CSI: 0.825 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity L 1542 /- /- /731 /87 /125 G 1542 /- /- /731 /87 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 208 -3260 C - D 207 -3253 B - C 208 -3255 D - E 208 -3258

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.45 17.27 4.16
23.75 0.00 23.46 1.45 17.27 4.16
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.25" DL: 0.22". See detail DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



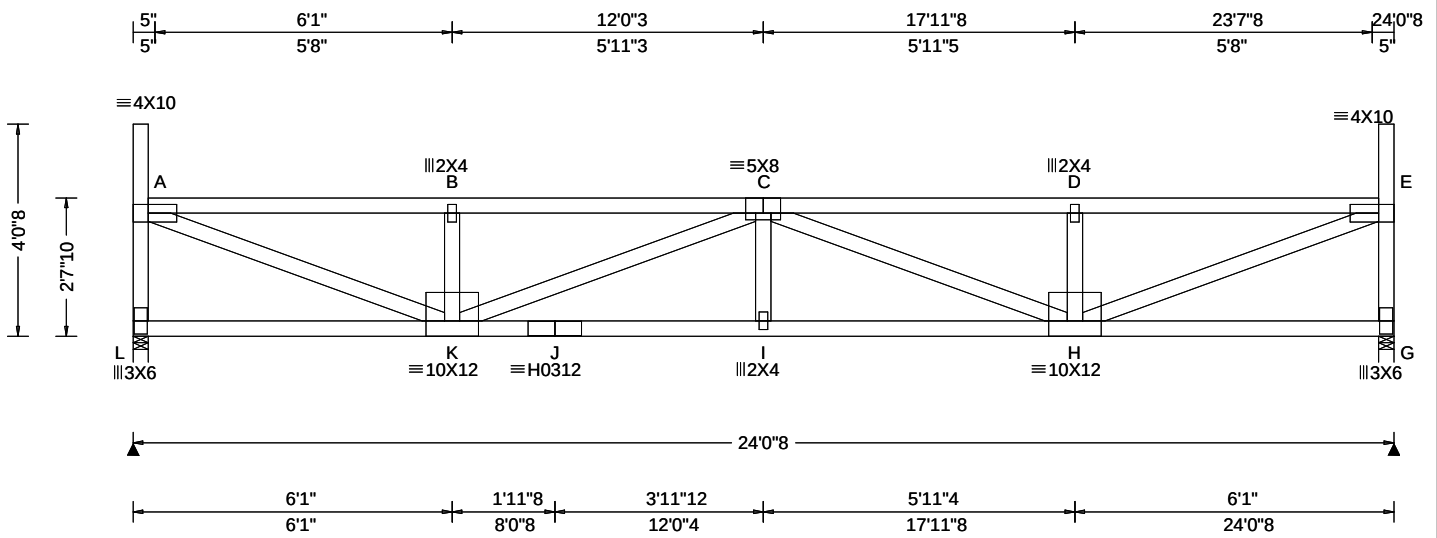
05/22/2022

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Building 14

SEQN: 37895	FLAT	Ply: 1	Job Number: JB-220700	Cust: R 9316 JRef:1XIQ93160003 T148
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1749.00387
			Truss Label: T46	/ FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.243 I 999 360	Loc R+ / R- / Rh / Rw / U / RL
BCDL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.451 I 939 240	L 1542 /- /- /731 /82 /122
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.046 A - -	G 1542 /- /- /731 /82 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.086 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 21.64 ft	Building Code:	Creep Factor: 2.0	L Brg Wid = 3.5 Min Req = 2.0 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.663	G Brg Wid = 3.5 Min Req = 2.0 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.597	Bearings L & G are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.813	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 14.50 ft	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18			
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 21.02.00.1005.17	A - B 173 - 3203 C - D 172 - 3197
				B - C 172 - 3198 D - E 172 - 3202

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail
DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



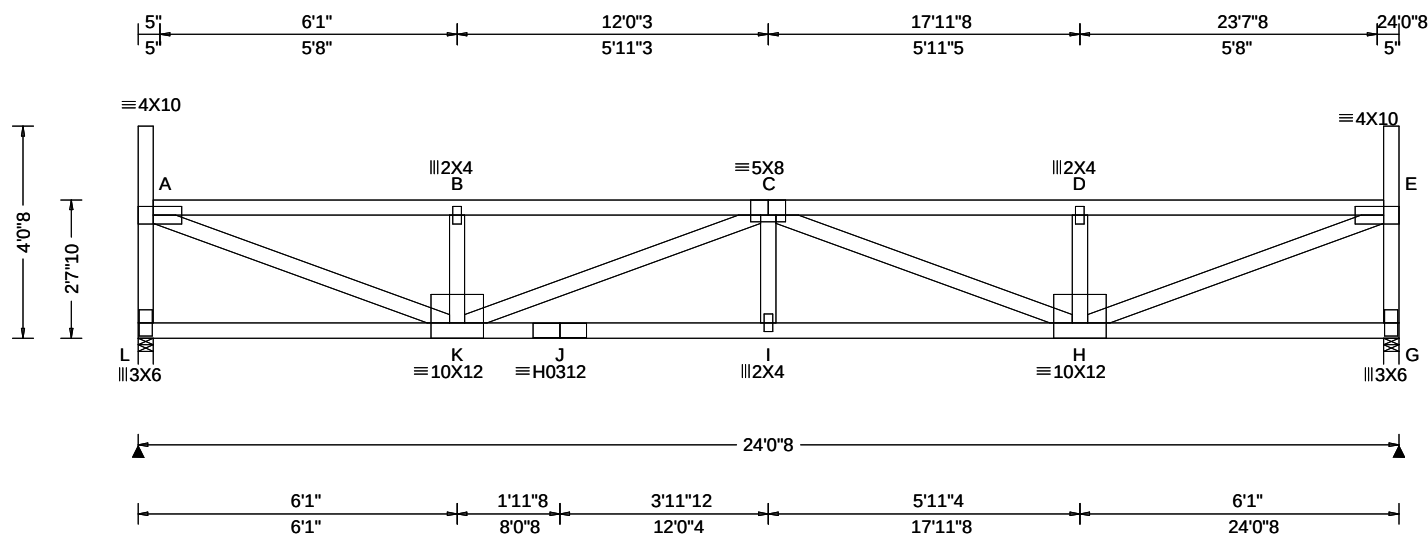
05/22/2022

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Building 14

SEQN: 37896	FLAT	Ply: 1	Job Number: JB-220700	Cust: R 9316 JRef:1XfQ93160003 T207
FROM:		Qty: 2	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1749.03270
			Truss Label: T46A	/ FK 05/22/2022

[illegible]

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.41	15.89	3.83
23.75	0.00	23.46	1.41	15.89	3.83

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Deflection

Max JT VERT DEFL: LL: 0.24" DL: 0.21". See detail
DEFLCMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

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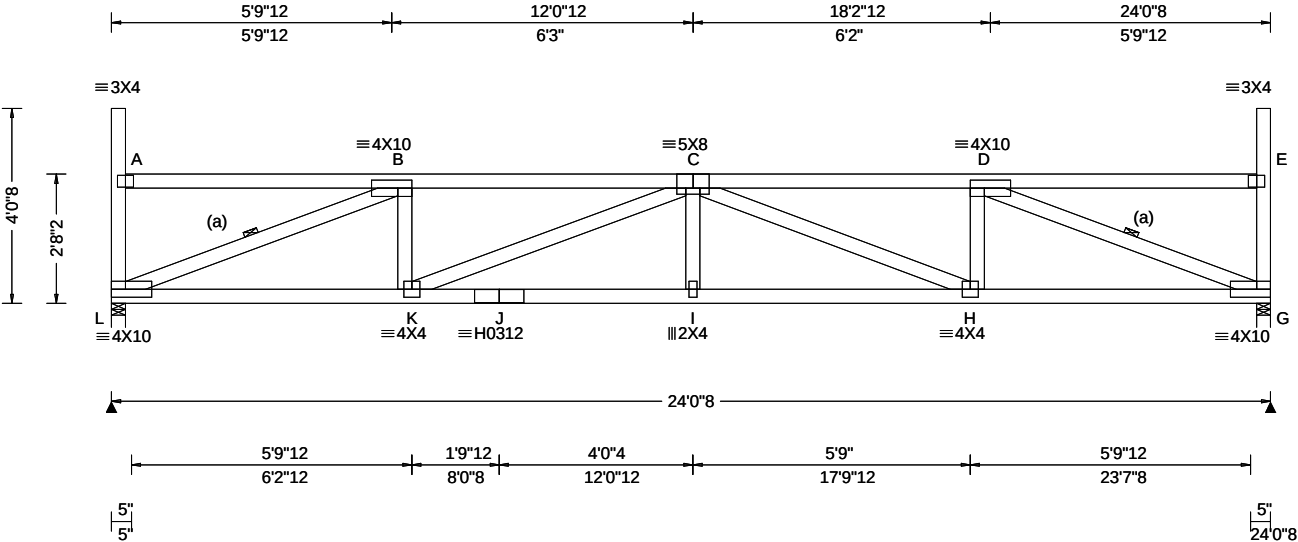
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37897 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T47	Cust: R 9316 JRef:1XIQ93160003 T163 DrwNo: 142.22.1749.06050 / FK 05/22/2022
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Loading Criteria (psf) TCCL: 20.00 TCDL: 15.00 BCCL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.68 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 14.50 ft GCp: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): 0.223 I 999 360 VERT(CL): 0.415 I 694 240 HORZ(LL): 0.058 G - - HORZ(TL): 0.108 G - - Creep Factor: 2.0 Max TC CSI: 0.516 Max BC CSI: 0.604 Max Web CSI: 0.706 VIEW Ver: 21.02.00.1005.17	Maximum Reactions (lbs) Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /82 /121 G 1542 /- /- /731 /82 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 166 -3169 C - D 166 -3166
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Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



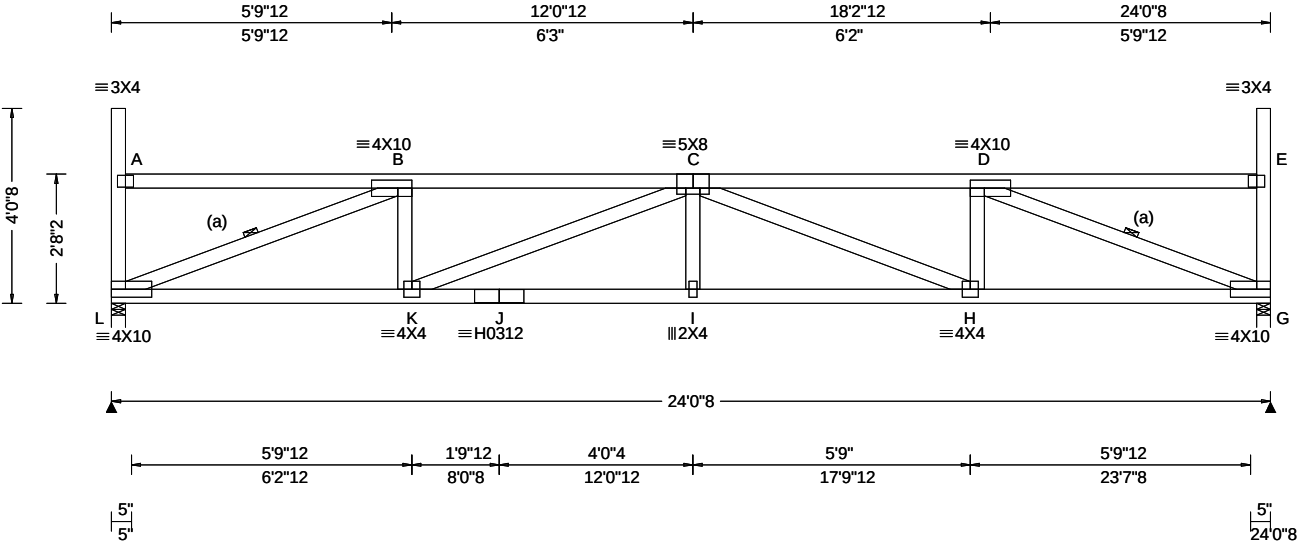
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Building 14

SEQN: 37898 FROM:	FLAT Qty: 2	Ply: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T47A	Cust: R 9316 JRef:1XIQ93160003 T203 DrwNo: 142.22.1749.08757 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.34 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.223 I 999 360 VERT(CL): 0.415 I 694 240 HORZ(LL): 0.058 G - - HORZ(TL): 0.108 G - - Creep Factor: 2.0 Max TC CSI: 0.516 Max BC CSI: 0.604 Max Web CSI: 0.706 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL L 1542 /- /- /731 /88 /122 G 1542 /- /- /731 /88 /- Wind reactions based on MWFRS L Brg Wid = 3.5 Min Req = 2.0 (Truss) G Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 199 -3169 C - D 199 -3166

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.36	14.50	3.50
23.75	0.00	23.46	1.36	14.50	3.50

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.22" DL: 0.19". See detail DEFLCMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

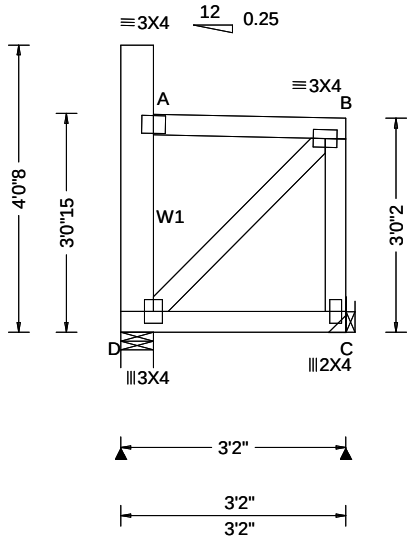
Truss must be installed as shown with top chord up.



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Building 14

SEQN: 37900 FROM:	MONO Ply: 1 Qty: 5	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48A	Cust: R 9316 JRef:1XIQ93160003 T197 DrwNo: 142.22.1749.11213 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	176	/-	/-	/111	/53	/78
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.001 B 999 240	C	204	/-	/-	/150	/47	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D	Brg Wid = 5.5 Min Req = 1.5 (Truss)					
Des Ld: 65.00	Mean Height: 22.71 ft	Building Code: IBC 2018	Creep Factor: 2.0	C	Brg Wid = - Min Req = -					
NCBCLL: 0.00	TCDL: 5.0 psf		TPI Std: 2014	Max TC CSI: 0.139	Bearing D is a rigid surface.					
Soffit: 2.00	BCDL: 3.0 psf	Rep Fac: Yes	Max BC CSI: 0.123	Members not listed have forces less than 375#						
Load Duration: 1.15	MWFRS Parallel Dist: 0 to h/2	FT/RT:20(0)/10(0)	Max Web CSI: 0.033							
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Plate Type(s):								
	Loc. from endwall: Any	WAVE	VIEW Ver: 21.02.00.1005.17							
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



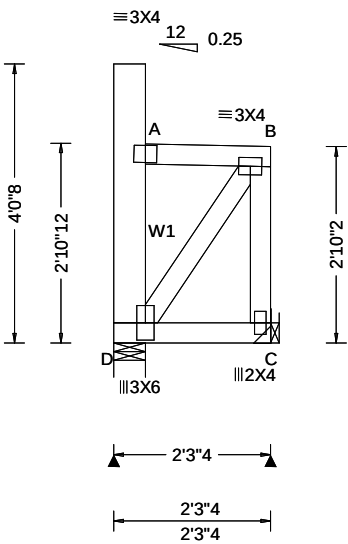
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Building 14

SEQN: 37901 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T49	Cust: R 9316 JRef:1XIQ93160003 T230 DrwNo: 142.22.1749.13873 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	119	/-	/-	/98	/77	/80
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	144	/-	/-	/147	/60	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
	EXP: B Kzt: NA		HORZ(TL): 0.001 A - -	D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Des Ld: 65.00	Mean Height: 21.87 ft	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Creep Factor: 2.0	C Brg Wid = - Min Req = -						
NCBCLL: 0.00	TCDL: 5.0 psf		Max TC CSI: 0.065	Bearing D is a rigid surface.						
Soffit: 2.00	BCDL: 3.0 psf		Max BC CSI: 0.063	Members not listed have forces less than 375#						
Load Duration: 1.15	MWFRS Parallel Dist: h/2 to h		Max Web CSI: 0.042							
Spacing: 24.0 "	C&C Dist a: 3.00 ft									
	Loc. from endwall: Any									
	GCpi: 0.18									
	Wind Duration: 1.60									
			VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

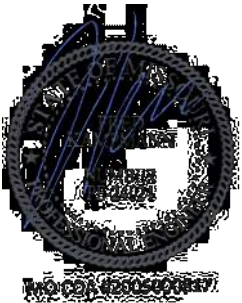
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



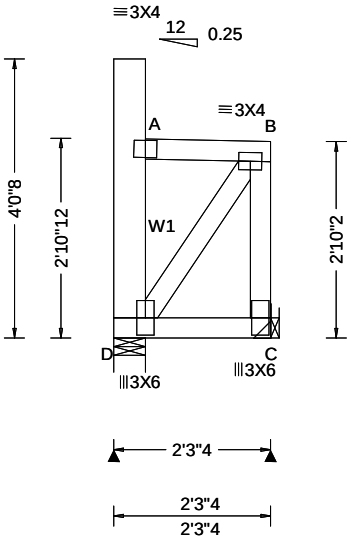
05/22/2022

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Building 14

SEQN: 37902 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T49A	Cust: R 9316 JRef:1XIQ93160003 T217 DrwNo: 142.22.1749.16527 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.000 B 999 360	D	119	/-	/-	/99	/78	/80
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	C	144	/-	/-	/147	/61	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.001 A - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA	Building Code: IBC 2018	HORZ(TL): 0.001 A - -	D Brg Wid = 5.5 Min Req = 1.5 (Truss)						
	Creep Factor: 2.0		C Brg Wid = - Min Req = -							
	Mean Height: 22.53 ft		Bearing D is a rigid surface.							
NCBCLL: 0.00	TCDL: 5.0 psf	TPI Std: 2014	Max TC CSI: 0.065	Members not listed have forces less than 375#						
Soffit: 2.00	BCDL: 3.0 psf	Rep Fac: Yes	Max BC CSI: 0.063							
Load Duration: 1.15	MWFRS Parallel Dist: h/2 to h	FT/RT:20(0)/10(0)	Max Web CSI: 0.042							
	C&C Dist a: 3.00 ft	Plate Type(s):								
Spacing: 24.0 "	Loc. from endwall: Any	WAVE								
	GCpi: 0.18									
	Wind Duration: 1.60		VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



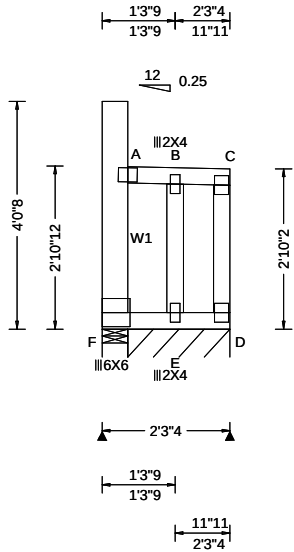
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Building 14

SEQN: 37903 FROM:	MONO Ply: 1 Qty: 3	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T50	Cust: R 9316 JRef:1XIQ93160003 T128 DrwNo: 142.22.1749.19027 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.006 A 999 360	F	36	/-8	/-	/96	/138	/80
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.008 A 999 240	D*	139	/-	/-	/141	/57	/-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.111 B - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA	Building Code:	HORZ(TL): 0.128 B - -	F Brg Wid = 5.5 Min Req = 1.5 (Truss)						
	Mean Height: 21.87 ft		D Brg Wid = 21.7 Min Req = -							
	TCDL: 5.0 psf		Bearings F & F are a rigid surface.							
	BCDL: 3.0 psf		Members not listed have forces less than 375#							
	MWFRS Parallel Dist: h/2 to h									
NCBCLL: 0.00	C&C Dist a: 3.00 ft	IBC 2018	Creep Factor: 2.0							
Soffit: 2.00	Loc. from endwall: not in 14.50 ft	TPI Std: 2014	Max TC CSI: 0.110							
Load Duration: 1.15	GCp: 0.18	Rep Fac: Yes	Max BC CSI: 0.254							
	Wind Duration: 1.60	FT/RT:20(0)/10(0)	Max Web CSI: 0.115							
	Spacing: 24.0 "	Plate Type(s):	VIEW Ver: 21.02.00.1005.17							
		WAVE								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



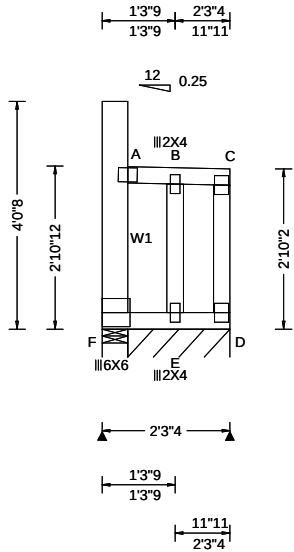
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Building 14

SEQN: 37904 FROM:	MONO Ply: 1 Qty: 3	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T50A	Cust: R 9316 JRef:1XIQ93160003 T138 DrwNo: 142.22.1749.21637 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.007 A 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.009 A 999 240	F 36	/-8	/-	/118	/150	/92	
	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.124 B - -	D* 139	/-	/-	/148	/70	/-	
	EXP: B Kzt: NA		HORZ(TL): 0.141 B - -	Wind reactions based on MWFRS						
	Mean Height: 22.53 ft	Building Code:	Creep Factor: 2.0	F Brg Wid = 5.5 Min Req = 1.5 (Truss)						
	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.111	D Brg Wid = 21.7 Min Req = -						
	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.255	Bearings F & F are a rigid surface.						
	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.115	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)								
Loc. from endwall: not in 14.50 ft	Plate Type(s):									
GCpi: 0.18	WAVE									
Wind Duration: 1.60			VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 3X4 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 20.00 1.16 7.63 1.81
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.
End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



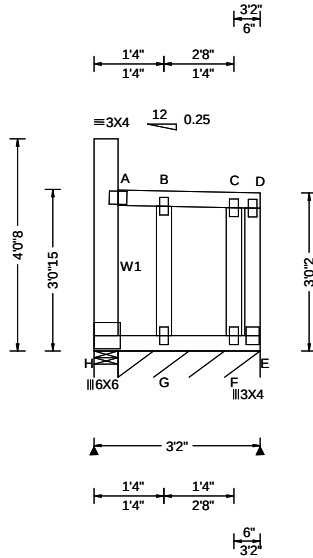
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Building 14

SEQN: 37905	GABL	Ply: 1	Job Number: JB-220700	Cust: R 9316 JRef:1XIQ93160003 T169
FROM:		Qty: 4	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1749.24320
			Truss Label: T51A	/ FK 05/22/2022



Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *PLF						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in Loc L/defl L/#		Gravity		Non-Gravity				
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.007 A 999 360		Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.010 A 999 240		H	47	/-	/-	/123	/131	/90
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.122 C - -		E*	123	/-	/-	/106	/44	/-
Des Ld: 65.00		EXP: B Kzt: NA				HORZ(TL): 0.143 B - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 22.71 ft		Building Code:		Creep Factor: 2.0		H Brg Wid = 5.5 Min Req = 1.5 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf		IBC 2018		Max TC CSI: 0.105		E Brg Wid = 32.5 Min Req = -						
Load Duration: 1.15		BCDL: 3.0 psf		TPI Std: 2014		Max BC CSI: 0.293		Bearings H & H are a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2		Rep Fac: Yes		Max Web CSI: 0.131		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft		FT/RT:20(0)/10(0)										
		Loc. from endwall: Any		Plate Type(s):										
		GCpi: 0.18												
		Wind Duration: 1.60		WAVE		VIEW Ver: 21.02.00.1005.17								

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets $L/360$.

Additional Notes

Truss must be installed as shown with top chord up.



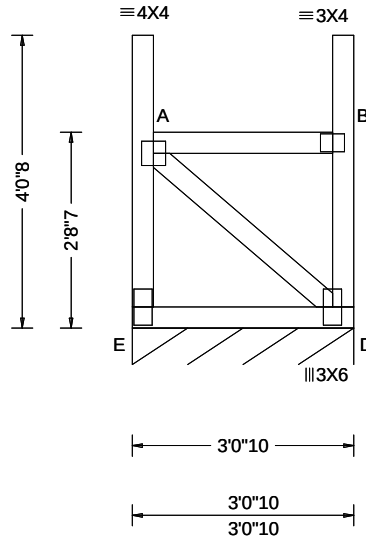
05/22/2022

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Building 14

SEQN: 37906 FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T52	Cust: R 9316 JRef:1XIQ93160003 T216 DrwNo: 142.22.1749.27440 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity			
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): -0.000 A 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.000 B 999 240	D*	123	/-	/-	/55	/4	/39
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): -0.001 B - -	Wind reactions based on MWFRS						
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.002 B - -	D Brg Wid = 36.6 Min Req = -						
NCBCLL: 0.00	Mean Height: 21.70 ft		Creep Factor: 2.0	Bearing E is a rigid surface.						
Soffit: 2.00	TCDL: 5.0 psf	Building Code:	Max TC CSI: 0.142	Members not listed have forces less than 375#						
Load Duration: 1.15	BCDL: 3.0 psf	IBC 2018	Max BC CSI: 0.128	Maximum Web Forces Per Ply (lbs)						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.221	<u>Webs Tens.Comp.</u>						
	C&C Dist a: 3.00 ft	Rep Fac: Yes		A - D	382	-387				
	Loc. from endwall: Any	FT/RT:20(0)/10(0)								
	GCpi: 0.18	Plate Type(s):								
	Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only
in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	20.00	1.34	13.63	2.47
2.76	0.00	20.00	1.34	13.63	2.47

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C
member design.

End verticals exposed to wind pressure. Deflection
meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



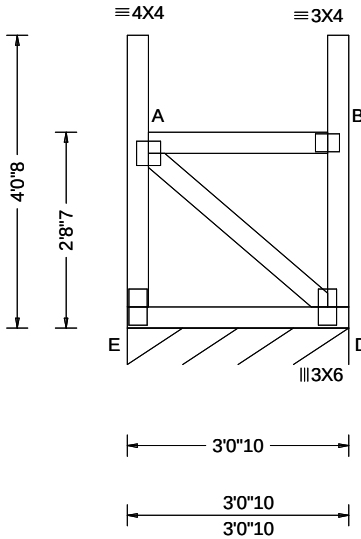
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37907 FROM:	GABL Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T52A	Cust: R 9316 JRef:1XIQ93160003 T132 DrwNo: 142.22.1749.29880 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs), or *=PLF						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): -0.000 A 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.000 B 999 240		D* 123 /- /- /55 /4 /40						
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): -0.001 B - -		Wind reactions based on MWFRS						
Des Ld: 65.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE		HORZ(TL): 0.002 B - -		D Brg Wid = 36.6 Min Req = -						
NCBCLL: 0.00		Mean Height: 22.37 ft				Creep Factor: 2.0		Bearing E is a rigid surface.						
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.142		Members not listed have forces less than 375#						
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.128		Maximum Web Forces Per Ply (lbs)						
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2				Max Web CSI: 0.223		<u>Webs Tens.Comp.</u>						
		C&C Dist a: 3.00 ft						A - D 385 -389						
		Loc. from endwall: Any												
		GCp: 0.18												
		Wind Duration: 1.60												

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Plating Notes

All plates are 3X6 except as noted.

Loading

Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 20.00 1.34 13.63 2.47
2.76 0.00 20.00 1.34 13.63 2.47
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



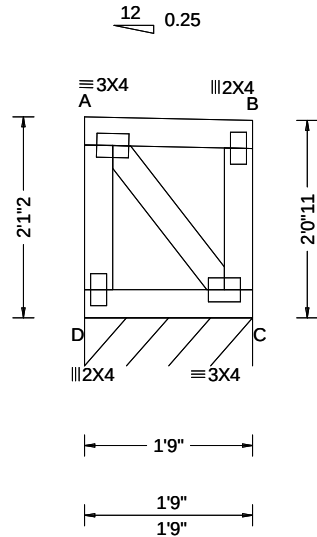
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North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37908 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE01	Cust: R 9316 JRef:1XIQ93160003 T188 DrwNo: 142.22.1749.32510 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.08 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.046 Max BC CSI: 0.039 Max Web CSI: 0.021 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 21.0 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

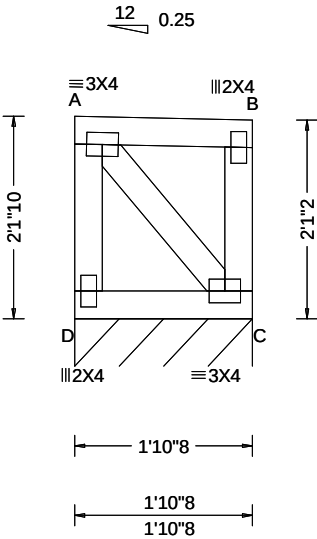
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37909 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE02	Cust: R 9316 JRef:1XIQ93160003 T189 DrwNo: 142.22.1749.35263 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.12 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.022 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/18
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



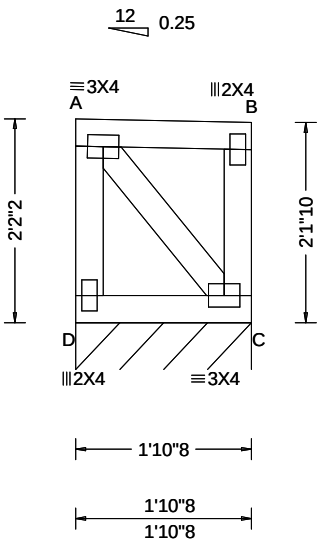
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Building 14

SEQN: 37910 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE03	Cust: R 9316 JRef:1XIQ93160003 T190 DrwNo: 142.22.1749.38103 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.16 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.023 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



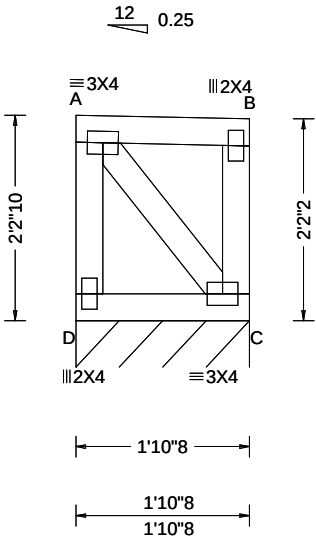
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Building 14

SEQN: 37911 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE04	Cust: R 9316 JRef:1XIQ93160003 T192 DrwNo: 142.22.1749.40890 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.20 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.024 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/19
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



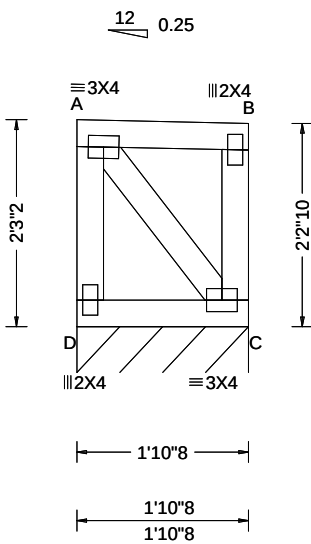
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North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37912 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE05	Cust: R 9316 JRef:1XIQ93160003 T215 DrwNo: 142.22.1749.43713 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.24 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.025 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



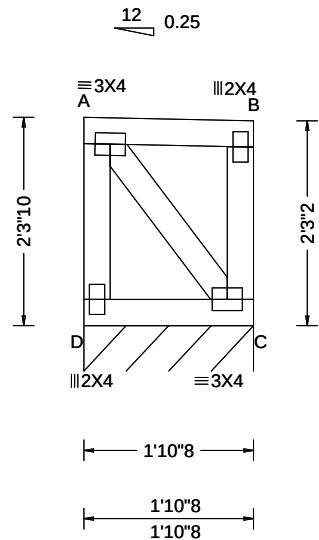
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Building 14

SEQN: 37913 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE06	Cust: R 9316 JRef:1XIQ93160003 T219 DrwNo: 142.22.1749.46627 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.28 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.026 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/20
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

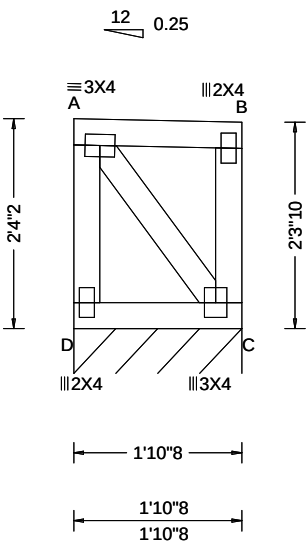
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37914 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE07	Cust: R 9316 JRef:1XIQ93160003 T220 DrwNo: 142.22.1749.49447 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.32 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.027 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

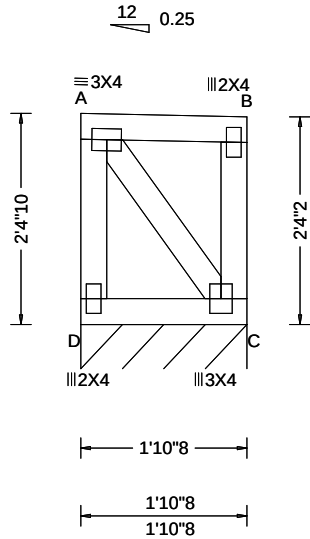
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37915 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE08	Cust: R 9316 JRef:1XIQ93160003 T221 DrwNo: 142.22.1749.52087 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.028 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/5	/21
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

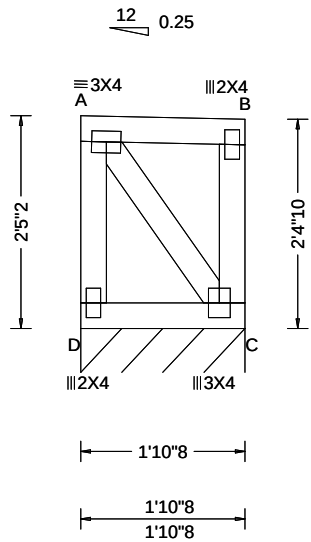
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37916 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE09	Cust: R 9316 JRef:1XIQ93160003 T222 DrwNo: 142.22.1749.54590 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.41 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.029 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /5 /22 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

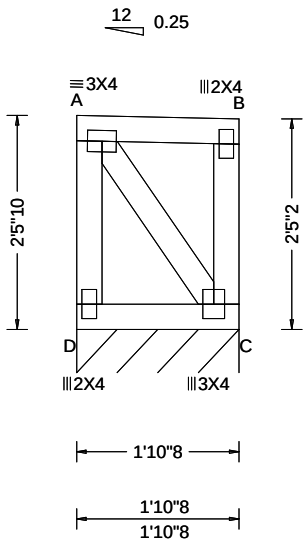
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37917 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE10	Cust: R 9316 JRef:1XIQ93160003 T223 DrwNo: 142.22.1749.57423 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.45 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.031 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



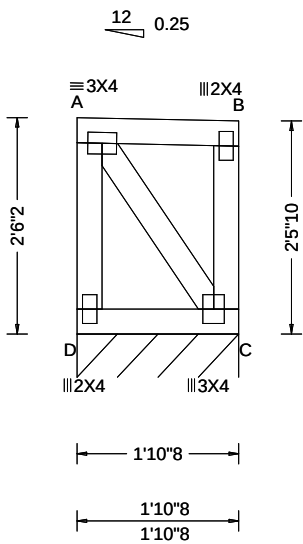
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Building 14

SEQN: 37918 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE11	Cust: R 9316 JRef:1XIQ93160003 T224 DrwNo: 142.22.1750.49620 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.49 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.032 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/22
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

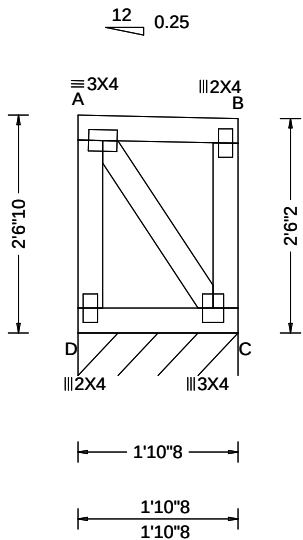
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37919 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE12	Cust: R 9316 JRef:1XIQ93160003 T225 DrwNo: 142.22.1750.52540 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.033 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

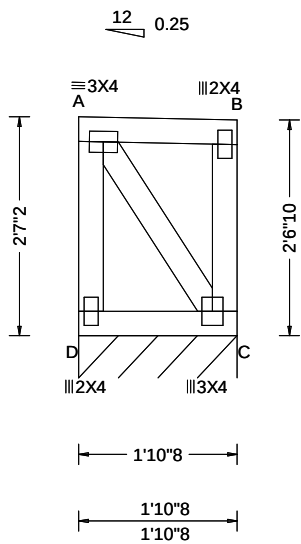
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37920 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE13	Cust: R 9316 JRef:1XIQ93160003 T226 DrwNo: 142.22.1750.55223 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.035 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/23
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

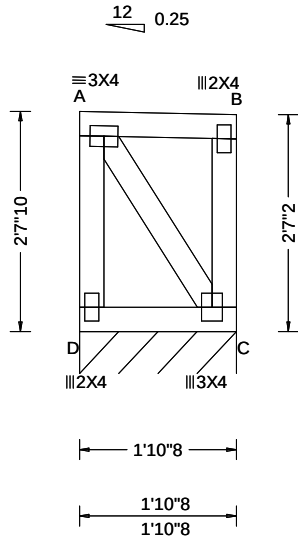
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37921 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE14	Cust: R 9316 JRef:1XIQ93160003 T227 DrwNo: 142.22.1750.58110 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.62 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.036 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



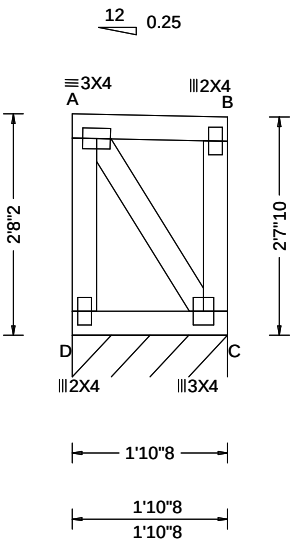
05/22/2022

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Building 14

SEQN: 37922 FROM:	MONO Ply: 1 Qty: 12	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE15	Cust: R 9316 JRef:1XIQ93160003 T228 DrwNo: 142.22.1751.00650 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.000 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.037 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/24
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

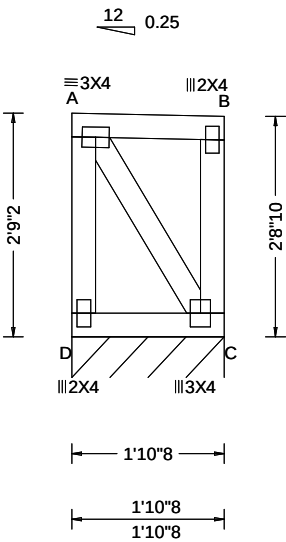


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Building 14

SEQN: 37923 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE16	Cust: R 9316 JRef:1XIQ93160003 T251 DrwNo: 142.22.1751.06753 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.74 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.040 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.

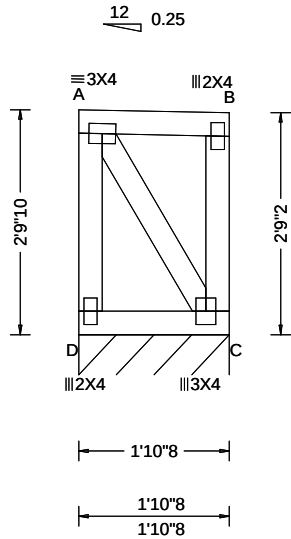


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Building 14

SEQN: 37924 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE17	Cust: R 9316 JRef:1XIQ93160003 T252 DrwNo: 142.22.1751.09360 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.78 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/26
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



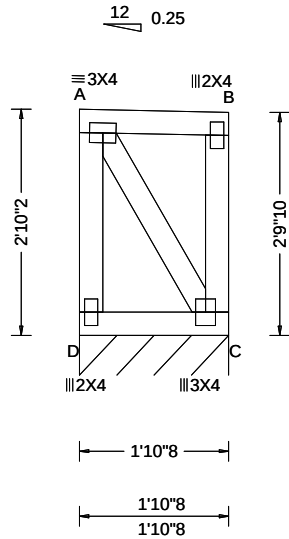
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Building 14

SEQN: 37925 FROM:	MONO Ply: 1 Qty: 8	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE18	Cust: R 9316 JRef:1XIQ93160003 T253 DrwNo: 142.22.1751.12013 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.82 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.042 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/26
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



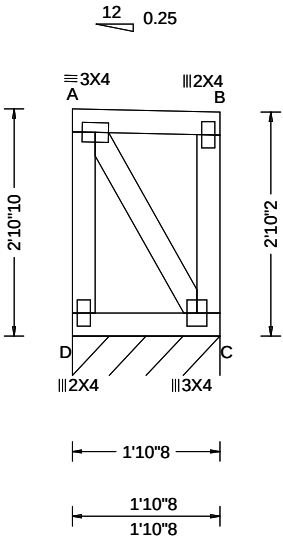
05/22/2022

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Building 14

SEQN: 37926 FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE19	Cust: R 9316 JRef:1XIQ93160003 T254 DrwNo: 142.22.1751.14700 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.53 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.044 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/27
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

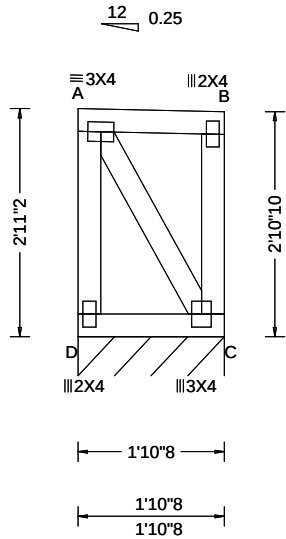
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37927 FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE20	Cust: R 9316 JRef:1XIQ93160003 T255 DrwNo: 142.22.1751.17440 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.57 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.046 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /28 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



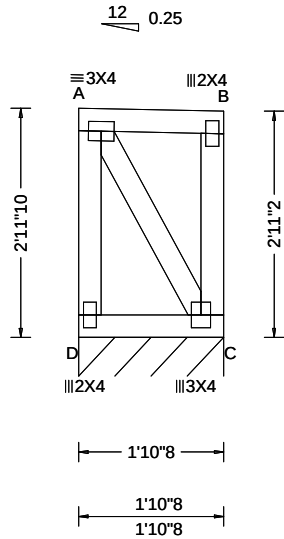
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Building 14

SEQN: 37928 FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE21	Cust: R 9316 JRef:1XIQ93160003 T256 DrwNo: 142.22.1751.20053 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.95 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.047 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 130 /- /- /61 /6 /28 Wind reactions based on MWFRS C Brg Wid = 22.5 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



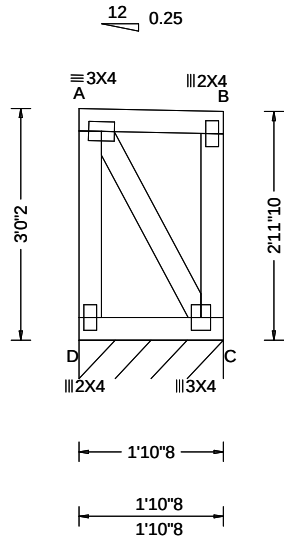
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Building 14

SEQN: 37929 FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE22	Cust: R 9316 JRef:1XIQ93160003 T257 DrwNo: 142.22.1751.22523 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): -0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.049 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/29
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



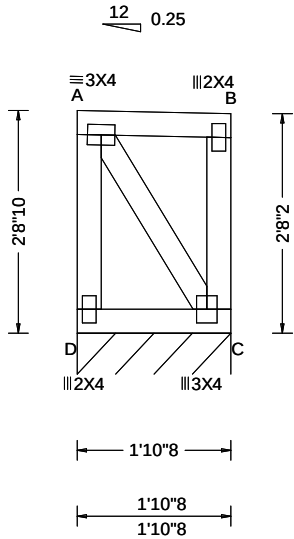
05/22/2022

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Building 14

SEQN: 37930 FROM:	MONO Ply: 1 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE23	Cust: R 9316 JRef:1XIQ93160003 T231 DrwNo: 142.22.1751.25090 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF						
				Gravity			Non-Gravity			
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.37 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): 0.000 B - - HORZ(TL): 0.001 B - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.038 VIEW Ver: 21.02.00.1005.17	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
				C*	130	/-	/-	/61	/6	/25
				Wind reactions based on MWFRS						
				C Brg Wid = 22.5 Min Req = -						
				Bearing D is a rigid surface.						
				Members not listed have forces less than 375#						

Lumber
Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes
Truss must be installed as shown with top chord up.



05/22/2022

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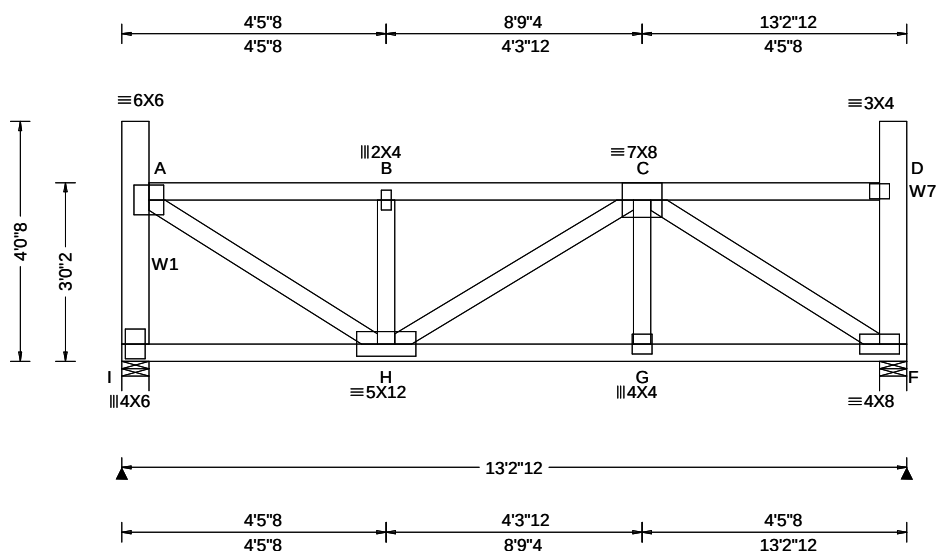
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37979	FLAT	Ply: 1	Job Number: JB-220700	Cust: R 9316 JRef:1xfQ93160003 T41
FROM:		Qty: 1	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1751.28050
			Truss Label: T09A	/ FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.039 B 999 360	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.072 B 999 240	I 1468 /- /- /- /190 /-
BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.012 A - -	F 1378 /- /- /- /170 /-
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.022 A - -	Wind reactions based on MWFRS
NCBCLL: 0.00	Mean Height: 22.68 ft	Building Code:	Creep Factor: 2.0	I Brg Wid = 5.5 Min Req = 1.9 (Truss)
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.314	F Brg Wid = 5.5 Min Req = 1.7 (Truss)
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.556	Bearings I & F are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.840	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	WAVE	VIEW Ver: 21.02.00.1005.17	A - B 231 -1785 B - C 231 -1780
	Wind Duration: 1.60			

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
 TC: From 70 plf at 0.46 to 70 plf at 12.77
 BC: From 60 plf at 0.00 to 60 plf at 13.23
 BC: 204 lb Conc. Load at 1.17, 3.17, 5.17, 11.17
 BC: 188 lb Conc. Load at 7.17, 9.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

05/27/2022
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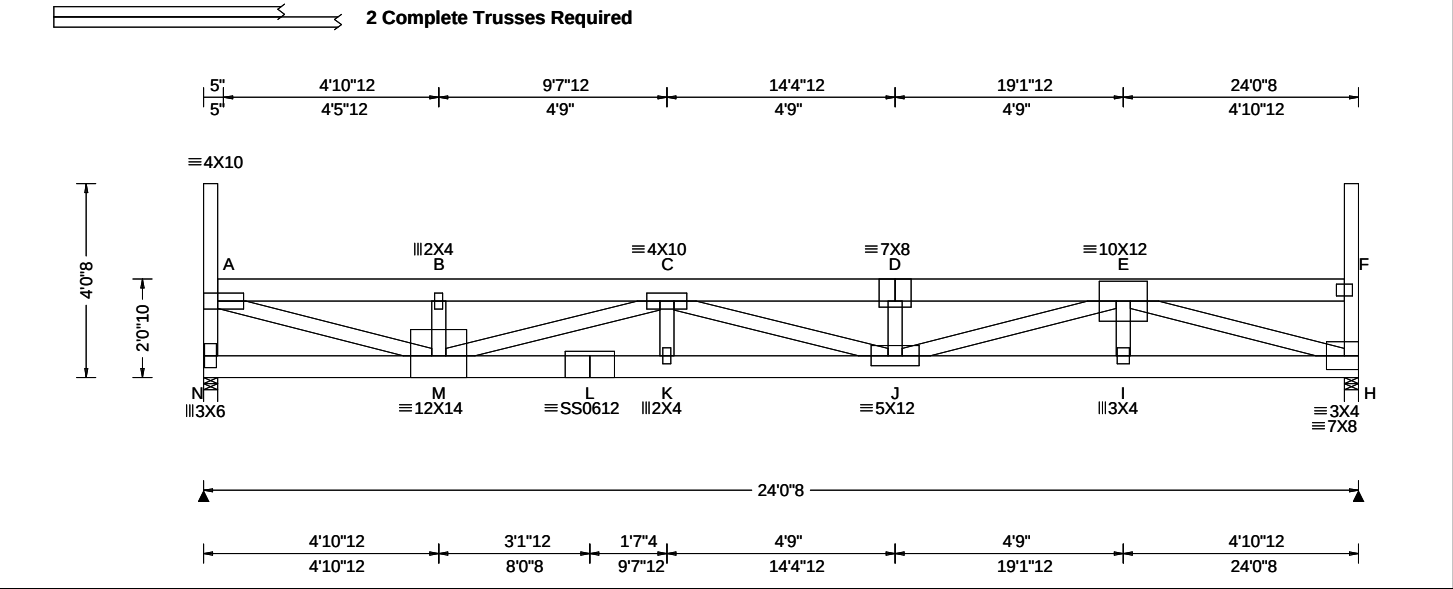
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37939 FROM:	FLAT Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T32	Cust: R 9316 JRef:1XIQ93160003 T31 DrwNo: 142.22.1751.32310 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL: 20.00		Wind Std: ASCE 7-16		Pg: 20.0 Ct: 1.1 CAT: II		PP Deflection in loc L/def L/#		Gravity			Non-Gravity			
TCDL: 15.00		Speed: 109 mph		Pf: 15.4 Ce: 1.0		VERT(LL): 0.258 D 999 360		Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCCL: 15.00		Enclosure: Closed		Lu: - Cs: 1.00		VERT(CL): 0.480 D 601 240		N	2492	/-	/-	/-	/396	/-
BCDL: 15.00		Risk Category: II		Snow Duration: 1.15		HORZ(LL): 0.039 H - -		H	2487	/-	/-	/-	/399	/-
Des Ld: 65.00		EXP: B Kzt: NA		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS		HORZ(TL): 0.073 H - -		Wind reactions based on MWFRS						
NCBCLL: 0.00		Mean Height: 21.05 ft				Creep Factor: 2.0		N Brg Wid = 3.5 Min Req = 2.0 (Truss)						
Soffit: 2.00		TCDL: 5.0 psf				Max TC CSI: 0.228		H Brg Wid = 3.5 Min Req = 2.0 (Truss)						
Load Duration: 1.15		BCDL: 3.0 psf				Max BC CSI: 0.646		Bearings N & H are a rigid surface.						
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2				Max Web CSI: 0.893		Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft						Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall: Any						Chords Tens.Comp. Chords Tens. Comp.						
		GCpi: 0.18												
		Wind Duration: 1.60												
						VIEW Ver: 21.02.00.1005.17								

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 60 plf at 0.00 to 60 plf at 24.04
BC: 173 lb Conc. Load at 1.98, 7.98, 9.98,11.98
13.98,15.98,19.98,21.98
BC: 170 lb Conc. Load at 3.98, 5.98,17.98

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.29 0.00 23.46 1.99 34.38 4.14
23.75 0.00 23.46 1.99 34.38 4.14
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	4650 - 770	J - I	3161 - 522
L - K	4650 - 770	I - H	3161 - 522
K - J	4650 - 770		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - A	176 - 1116	J - E	1573 - 264
A - M	3202 - 525	E - H	543 - 3280
M - C	265 - 1560		



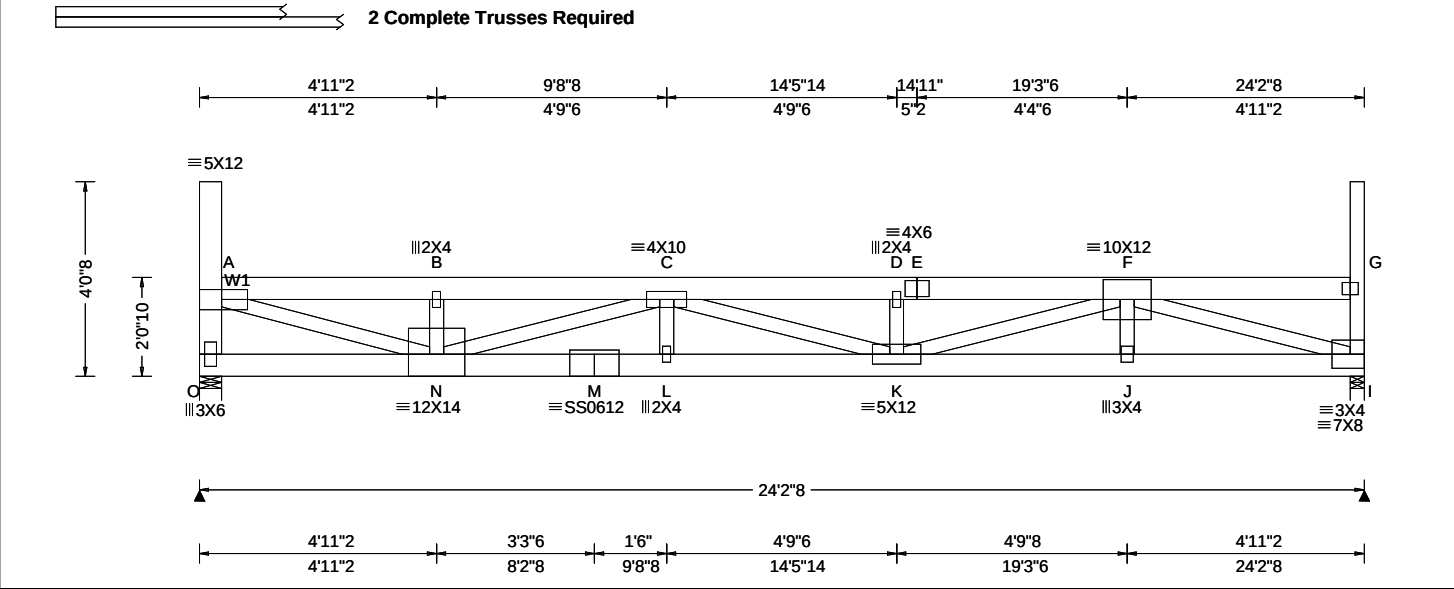
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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37937 FROM:	FLAT Qty: 1	Ply: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T16	Cust: R 9316 JRef:1XIQ93160003 T24 DrwNo: 142.22.1751.35613 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)							
	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity				
	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.264 D 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.491 D 591 240	O	2490	-/-	-/-	-/-	/391	-/-	
	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.040 I - -	I	2497	-/-	-/-	-/-	/397	-/-	
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(TL): 0.075 I - -	Wind reactions based on MWFRS							
NCBCLL: 0.00	Mean Height: 21.05 ft	Building Code:	Creep Factor: 2.0	O Brg Wid = 5.5 Min Req = 2.0 (Truss)							
Soffit: 2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.233	I Brg Wid = 3.5 Min Req = 2.0 (Truss)							
Load Duration: 1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.654	Bearings O & I are a rigid surface.							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.908	Members not listed have forces less than 375#							
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)							
	Loc. from endwall: Any	Plate Type(s):		Chords		Tens.Comp.		Chords		Tens. Comp.	
	GCpi: 0.18			A - B	518	- 3212	D - E	775	- 4713		
	Wind Duration: 1.60	WAVE, 18SS	VIEW Ver: 21.02.00.1005.17	B - C	517	- 3204	E - F	775	- 4713		

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 60 plf at 0.00 to 60 plf at 24.21
BC: 173 lb Conc. Load at 2.06,10.06,12.06,14.06
16.06,20.06,22.06
BC: 170 lb Conc. Load at 4.06, 6.06, 8.06,18.06

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.99 34.38 4.14
23.92 0.00 23.46 1.99 34.38 4.14
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.



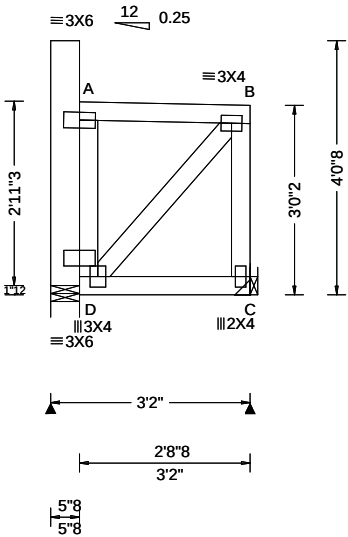
05/22/2022

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Building 14

SEQN: 37973 FROM:	MONO Ply: 1 Qty: 7	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T48	Cust: R 9316 JRef:1XIQ93160003 T40 DrwNo: 142.22.1751.48310 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.71 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 D 999 360 VERT(CL): 0.001 D 999 240 HORZ(LL): 0.002 A - - HORZ(TL): 0.002 A - - Creep Factor: 2.0 Max TC CSI: 0.126 Max BC CSI: 0.103 Max Web CSI: 0.048 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D 175 /- /- /107 /55 /81 C 188 /- /- /139 /46 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Support) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;
Lt Bearing Leg: 2x4 SPF 1650f-1.5E;

Wind

Wind loads based on MWFRS with additional C&C member design.
Left end vertical exposed to wind pressure. Deflection meets L/360.
Right end vertical not exposed to wind pressure.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11644.75" if used)

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

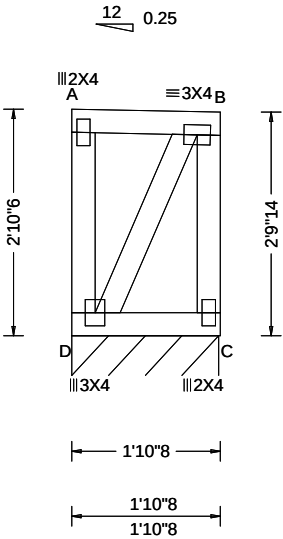
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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37931 FROM:	MONO Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: TGE24	Cust: R 9316 JRef:1XIQ93160003 T35 DrwNo: 142.22.1751.51530 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.66 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 29.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 A 999 360 VERT(CL): 0.000 A 999 240 HORZ(LL): -0.000 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.053 Max BC CSI: 0.046 Max Web CSI: 0.041 VIEW Ver: 21.02.00.1005.17	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 131 /- /- /61 /6 /27 Wind reactions based on MWFRS D Brg Wid = 22.2 Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2;

Wind

Wind loads based on MWFRS with additional C&C member design.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



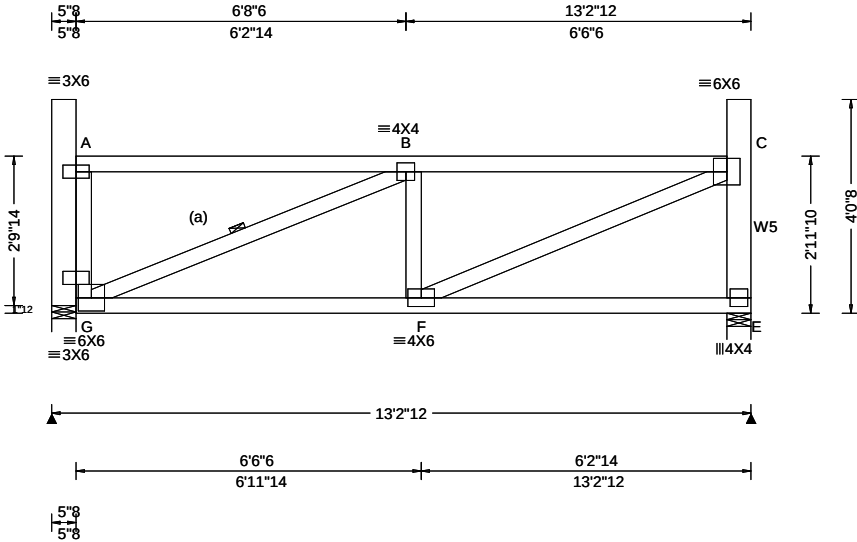
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Building 14

SEQN: 37829 FROM:	MONO Qty: 1	Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T08	Cust: R 9316 JRef:1XIQ93160003 T36 DrwNo: 142.22.1751.54323 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.64 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.036 B 999 360 VERT(CL): 0.067 B 999 240 HORZ(LL): 0.007 E - - HORZ(TL): 0.013 E - - Creep Factor: 2.0 Max TC CSI: 0.705 Max BC CSI: 0.887 Max Web CSI: 0.297 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL G 823 /- /- /395 /51 /79 E 805 /- /- /382 /48 /- Non-Gravity Wind reactions based on MWFRS G Brg Wid = 5.5 Min Req = 1.5 (Support) E Brg Wid = 5.5 Min Req = 1.5 (Truss) Bearings G & E are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. B - C 99 - 1198

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W5 2x6 SPF 1650f-1.5E;
Lt Bearing Leg: 2x6 SPF 1650f-1.5E;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals exposed to wind pressure. Deflection meets L/360.

Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:
Bearing 1 located at 0.0' (blocking >= 11965.47" if used)

Additional Notes

Truss must be installed as shown with top chord up.



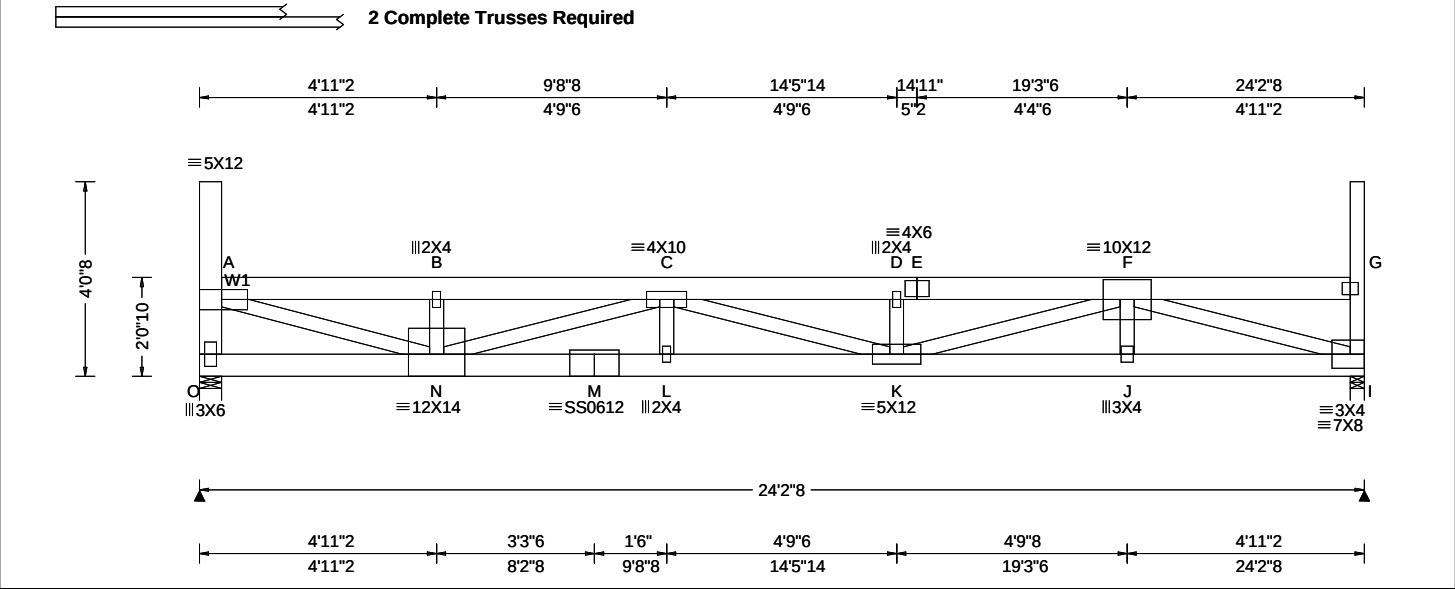
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Building 14

SEQN: 37938 FROM:	FLAT Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T16A	Cust: R 9316 JRef:1XIQ93160003 T6 DrwNo: 142.22.1751.58483 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00 Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.72 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15 Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	PP Deflection in loc L/def L/# VERT(LL): 0.264 D 999 360 VERT(CL): 0.490 D 592 240 HORZ(LL): 0.040 I - - HORZ(TL): 0.075 I - - Creep Factor: 2.0 Max TC CSI: 0.232 Max BC CSI: 0.653 Max Web CSI: 0.907 VIEW Ver: 21.02.00.1005.17	Gravity Loc R+ / R- / Rh / Rw / U / RL O 2486 /- /- /- /388 /- I 2496 /- /- /- /403 /- Non-Gravity Wind reactions based on MWFRS O Brg Wid = 5.5 Min Req = 1.9 (Truss) I Brg Wid = 3.5 Min Req = 2.0 (Truss) Bearings O & I are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 517 - 3208 D - E 782 - 4709 B - C 516 - 3200 E - F 782 - 4709 C - D 782 - 4709

Lumber
Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Nailnote
Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads
----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 23.92
BC: From 60 plf at 0.00 to 60 plf at 24.21
BC: 170 lb Conc. Load at 2.06, 4.06, 6.06, 8.06, 10.06, 18.06
BC: 173 lb Conc. Load at 12.06, 14.06, 16.06, 20.06, 22.06

Loading
Drifting snow load has been considered for only in plane loading as follows:
Location Lu1 Lu2 Height Pd W
0.46 0.00 23.46 1.99 34.38 4.14
23.92 0.00 23.46 1.99 34.38 4.14
Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins
The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind
Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Deflection
Max JT VERT DEFL: LL: 0.26" DL: 0.23". See detail DEFLCAMB1014 for camber recommendations.
Provide for adequate drainage of roof.

Additional Notes
Truss must be installed as shown with top chord up.

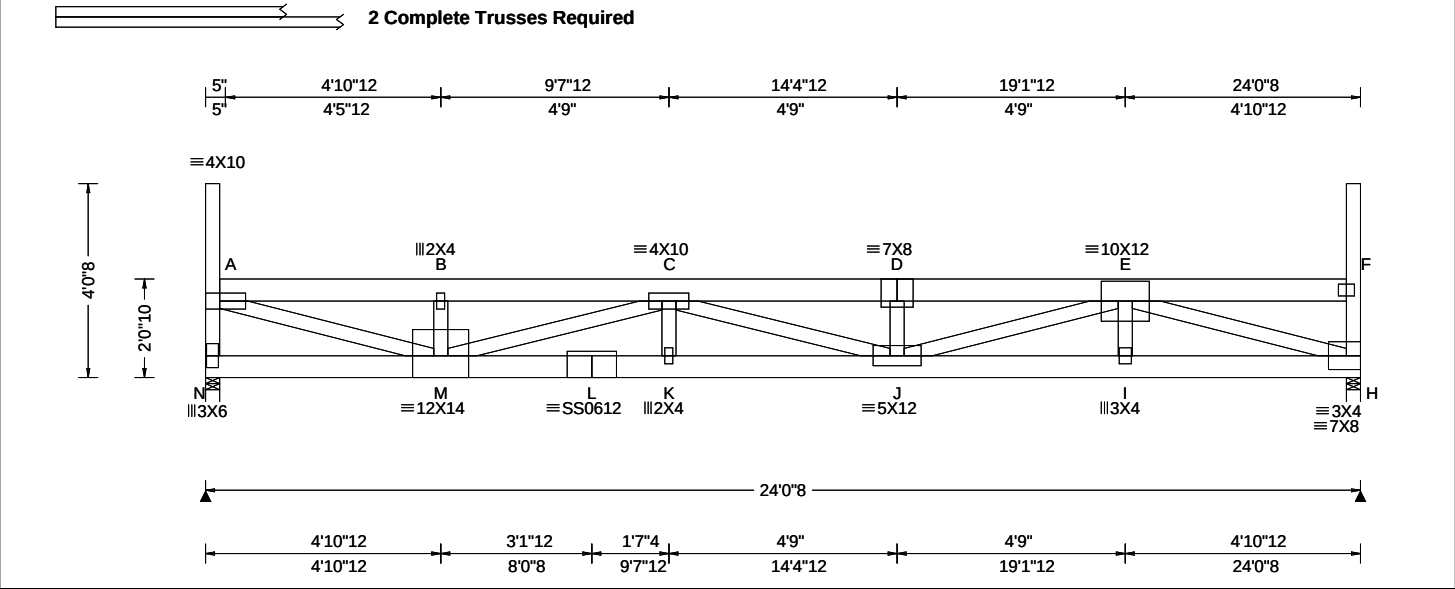


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ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Building 14

SEQN: 37940 FROM:	FLAT Ply: 2 Qty: 2	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T32A	Cust: R 9316 JRef:1XIQ93160003 T30 DrwNo: 142.22.1752.01647 / FK 05/22/2022
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
	TCLL: 20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	Gravity Non-Gravity						
	TCDL: 15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
	BCLL: 15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(LL): 0.258 D	999	360				
	BCDL: 15.00	Risk Category: II	Snow Duration: 1.15	VERT(CL): 0.479 D	601	240				
Des Ld: 65.00	EXP: B Kzt: NA		HORZ(LL): 0.039 H	-	-					
NCBCLL: 0.00	Mean Height: 21.72 ft	Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE, 18SS	HORZ(TL): 0.073 H	-	-					
Soffit: 2.00	TCCL: 5.0 psf		Creep Factor: 2.0							
Load Duration: 1.15	BCDL: 3.0 psf		Max TC CSI: 0.228							
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max BC CSI: 0.645							
	C&C Dist a: 3.00 ft		Max Web CSI: 0.892							
	Loc. from endwall: Any									
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

Top chord: 2x6 SPF 1650f-1.5E;
Bot chord: 2x6 SPF 1650f-1.5E;
Webs: 2x4 SPF #1/#2;

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.29 to 70 plf at 23.75
BC: From 60 plf at 0.00 to 60 plf at 24.04
BC: 170 lb Conc. Load at 1.98, 3.98, 5.98, 7.98, 9.98, 19.98
BC: 173 lb Conc. Load at 11.98, 13.98, 15.98, 17.93, 21.98

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
0.29	0.00	23.46	1.99	34.38	4.14
23.75	0.00	23.46	1.99	34.38	4.14

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.

End verticals exposed to wind pressure. Deflection meets L/360.

Deflection

Max JT VERT DEFL: LL: 0.26" DL: 0.22". See detail DEFLCAMB1014 for camber recommendations. Provide for adequate drainage of roof.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

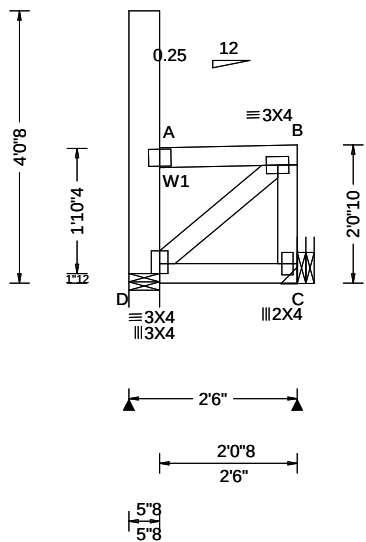
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Building 14

SEQN: 37819	MONO	Ply: 1	Job Number: JB-220700	Cust: R 9316 JRef:1XIQ93160003 T37
FROM:		Qty: 31	Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr	DrwNo: 142.22.1752.07273
			Truss Label: J02C	/ FK 05/22/2022



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 15.00 BCLL: 15.00 BCDL: 15.00	Wind Std: ASCE 7-16 Speed: 109 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.70 ft TCDL: 5.0 psf BCDL: 3.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: 20.0 Ct: 1.1 CAT: II Pf: 15.4 Ce: 1.0 Lu: - Cs: 1.00 Snow Duration: 1.15	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): 0.001 A - - HORZ(TL): 0.001 A - - Creep Factor: 2.0 Max TC CSI: 0.102 Max BC CSI: 0.079 Max Web CSI: 0.106	Gravity Non-Gravity Loc R+ /R- / Rh / Rw / U / RL D 122 /- /- /98 /76 /62 C 170 /- /- /145 /56 /- Wind reactions based on MWFRS D Brg Wid = 5.5 Min Req = 1.5 (Support) C Brg Wid = - Min Req = - Bearing D is a rigid surface. Members not listed have forces less than 375#
Des Ld: 65.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "		Building Code: IBC 2018 TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	VIEW Ver: 21.02.00.1005.17	

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF #1/#2;
Webs: 2x4 SPF #1/#2; W1 2x6 SPF 1650f-1.5E;

Loading

Drifting snow load has been considered for only in plane loading as follows:

Location	Lu1	Lu2	Height	Pd	W
	0.46	0.00	20.00	2.03	30.67
					2.04

Where: Lu1 = leeward distance, Lu2 = windward distance
Pd = max applied load, W = length of applied load.

Wind

Wind loads based on MWFRS with additional C&C member design.

Left end vertical exposed to wind pressure. Deflection meets L/360.

Right end vertical not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.



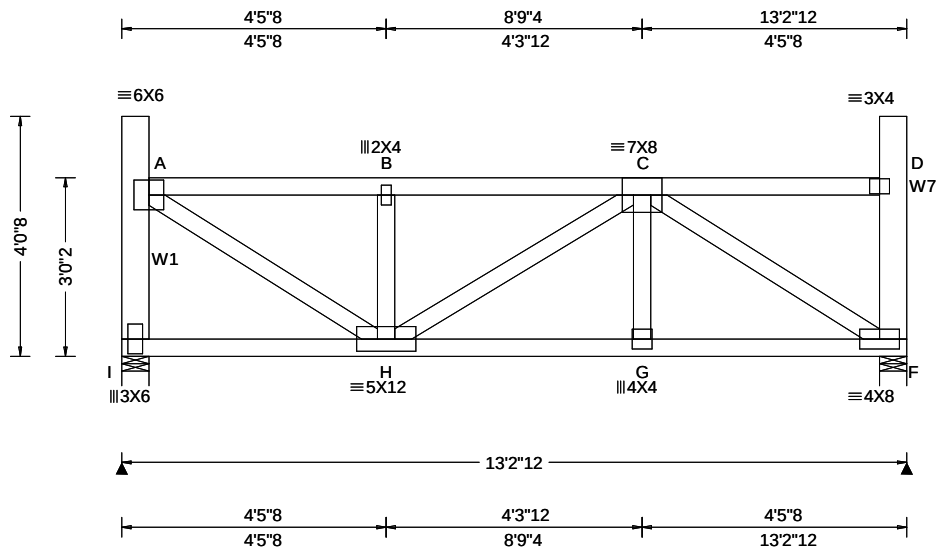
05/22/2022

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Building 14

SEQN: 37976 FROM:	FLAT Ply: 1 Qty: 1	Job Number: JB-220700 Customer:MCCAMBRIDGE BROTHERS CONS Address:2100 NW Lowenstein Dr Truss Label: T09	Cust: R 9316 JRef:1XIQ93160003 T29 DrwNo: 142.22.1752.15687 / FK 05/22/2022
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Loading Criteria (psf)		Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std: ASCE 7-16	Pg: 20.0 Ct: 1.1 CAT: II	PP Deflection in loc L/def L/#	Gravity			Non-Gravity			
TCDL:	15.00	Speed: 109 mph	Pf: 15.4 Ce: 1.0	VERT(LL): 0.038 B 999 360	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	15.00	Enclosure: Closed	Lu: - Cs: 1.00	VERT(CL): 0.071 B 999 240	I	1433	/-	/-	/-	/187	/-
BCDL:	15.00	Risk Category: II	Snow Duration: 1.15	HORZ(LL): 0.012 A - -	F	1367	/-	/-	/-	/169	/-
Des Ld:	65.00	EXP: B Kzt: NA		HORZ(TL): 0.021 A - -	Wind reactions based on MWFRS						
NCBCLL:	0.00	Mean Height: 22.68 ft	Building Code:	Creep Factor: 2.0	I	Brg Wid = 5.5		Min Req = 1.8 (Truss)			
Soffit:	2.00	TCDL: 5.0 psf	IBC 2018	Max TC CSI: 0.309	F	Brg Wid = 5.5		Min Req = 1.7 (Truss)			
Load Duration:	1.15	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.554	Bearings I & F are a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.831	Members not listed have forces less than 375#						
		C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall: Any	Plate Type(s):		Chords	Tens.Comp.		Chords	Tens. Comp.		
		GCpi: 0.18			A - B	228 - 1749		B - C	228 - 1744		
		Wind Duration: 1.60	WAVE	VIEW Ver: 21.02.00.1005.17							

Lumber

Top chord: 2x4 SPF #1/#2;
Bot chord: 2x4 SPF 2100f-1.8E;
Webs: 2x4 SPF #1/#2; W1,W7 2x6 SPF 1650f-1.5E;

Special Loads

----- (Lumber Dur.Fac.=1.15 / Plate Dur.Fac.=1.15)
TC: From 70 plf at 0.46 to 70 plf at 12.77
BC: From 60 plf at 0.00 to 60 plf at 13.23
BC: 188 lb Conc. Load at 1.17, 3.17, 5.17, 7.17, 9.17
BC: 204 lb Conc. Load at 11.17

Purlins

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads and reactions based on MWFRS.
End verticals exposed to wind pressure. Deflection meets L/360.

Additional Notes

Truss must be installed as shown with top chord up.



05/22/2022

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Gable Stud Reinforcement Detail
ASCE 7-16: 115 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Spacing	Species			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" O.C.		SPF	#1 / #2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 6"	7' 6"	8' 0"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 6"	7' 5"	7' 11"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	Standard	4' 6"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	4' 11"	8' 2"	8' 5"	9' 7"	10' 0"	11' 5"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	4' 9"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	#3	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 7"	6' 9"	7' 2"	9' 0"	9' 7"	11' 3"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	4' 6"	6' 0"	6' 4"	7' 11"	8' 6"	10' 9"	11' 6"	12' 6"	13' 4"	14' 0"	14' 0"
		DFL	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.		SPF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 2"	9' 1"	9' 6"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 2"	9' 1"	9' 5"	10' 9"	11' 2"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	#1	5' 8"	9' 4"	9' 8"	11' 0"	11' 5"	13' 1"	13' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	Stud	5' 3"	8' 3"	8' 10"	10' 9"	11' 2"	12' 10"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 2"	7' 4"	7' 9"	9' 9"	10' 5"	12' 9"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		DFL	#1 / #2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	5' 8"	10' 0"	10' 4"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 8"	9' 1"	9' 8"	11' 10"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.		SPF	#1	6' 3"	10' 3"	10' 8"	12' 1"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		SP	#1	5' 11"	10' 1"	10' 6"	11' 11"	12' 5"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		DFL	Stud	5' 10"	9' 7"	10' 2"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			Standard	5' 8"	8' 5"	9' 0"	11' 3"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	

Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch		Southern Pine***	
#1		#1	
#2		#2	

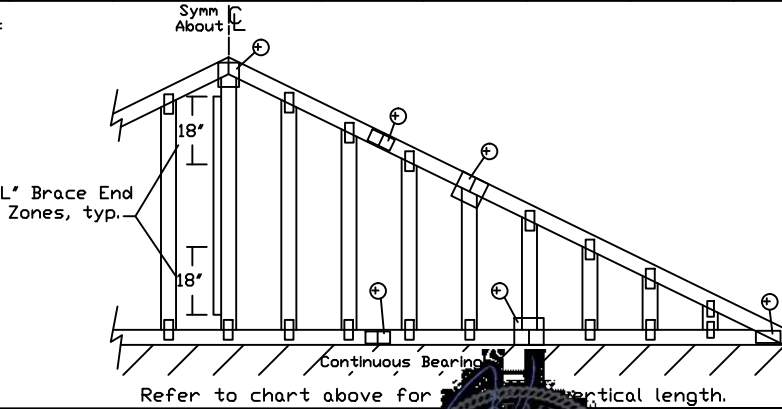
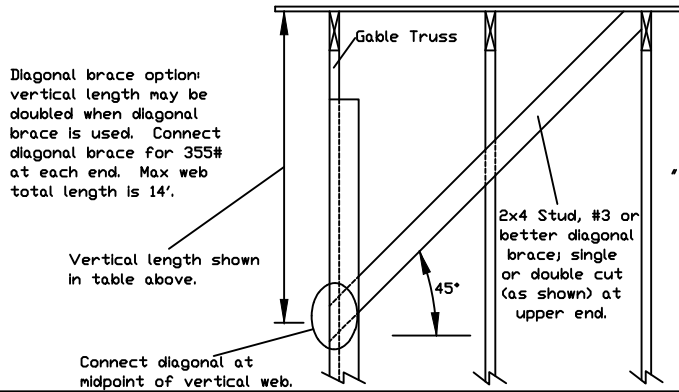
1x4 Braces shall be SRB (Stress-Rated Board).
***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:
Wind Load deflection criterion is L/240.
Provide uplift connections for 60 plf over continuous bearing (5 psf TC Dead Load).
Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.
* For (1) 'L' brace: space nails at 2' o.c. in 18' end zones and 4' o.c. between zones.
** For (2) 'L' braces: space nails at 3' o.c. in 18' end zones and 6' o.c. between zones.
'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2X4
Greater than 11' 6"	3X4
+ Refer to common truss design for peak, splice, and heel plates.	

Refer to the Building Designer for conditions not addressed by this detail.





AN ITW COMPANY

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

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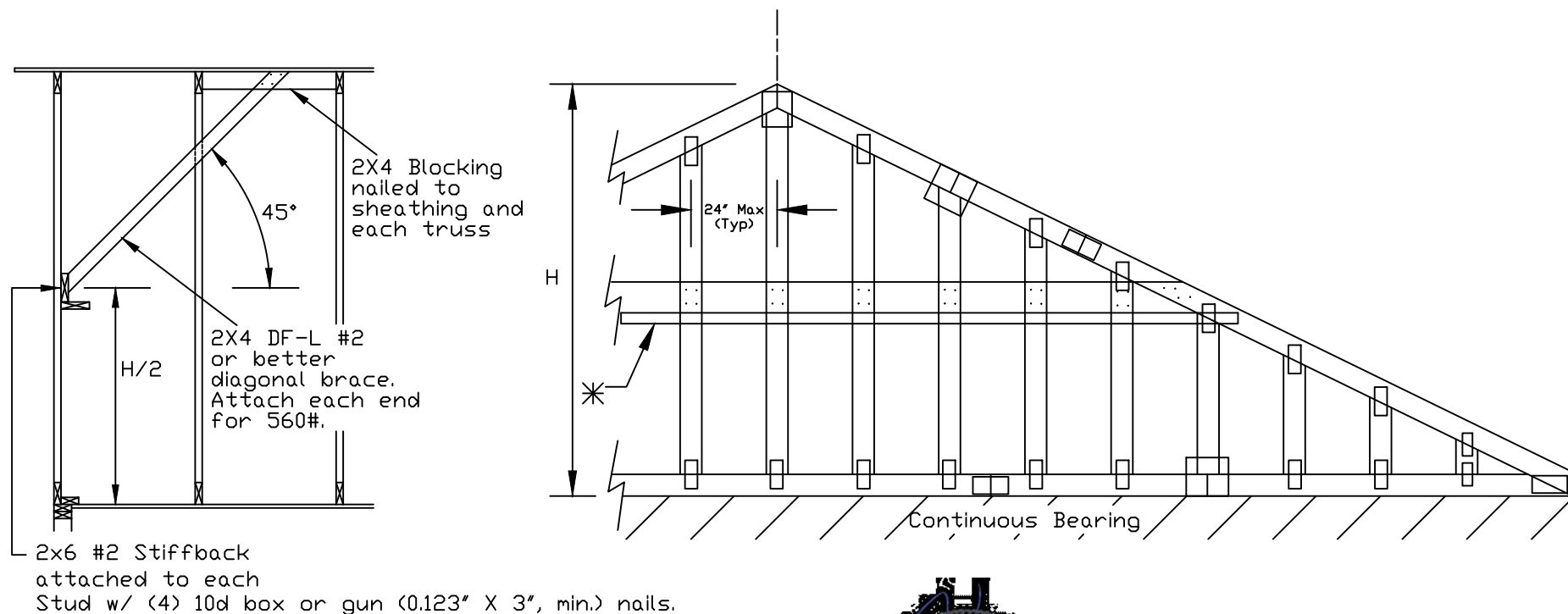
For more information see this Job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



05/22/2022

REF	ASCE7-16-GAB11530
DATE	01/26/2018
DRWG	A11530ENC160118
MAX. TOT. LD. 60 PSF	
MAX. SPACING 24.0"	

* Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min.) nails @ 6" o.c.



For more information see this job's general notes page and these web sites:
ALPINE: www.alpinetw.com TPI: www.tpinet.org SBCE: www.sbcecomponents.com ICC: www.iccsafe.org

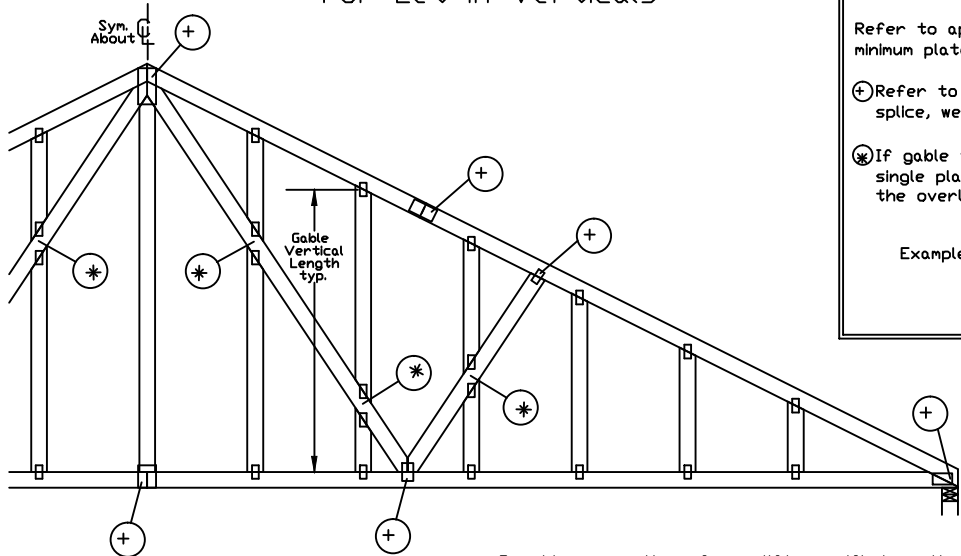


ENCLOSURE #200504000722/2022

MAX. SPACING

REF	GE WHALER
DATE	01/02/2018
DRWG	GABRST160118

Gable Detail For Let-in Verticals



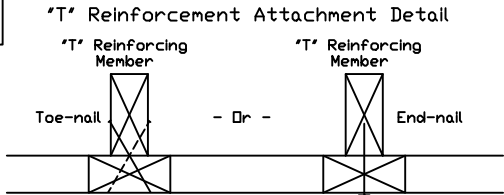
Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148"x 3", min) Nails at 4' o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x 3", min) Toenails at 4' o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

- ASCE 7-05 Gable Detail Drawings
- A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014
- ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
- A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.

To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

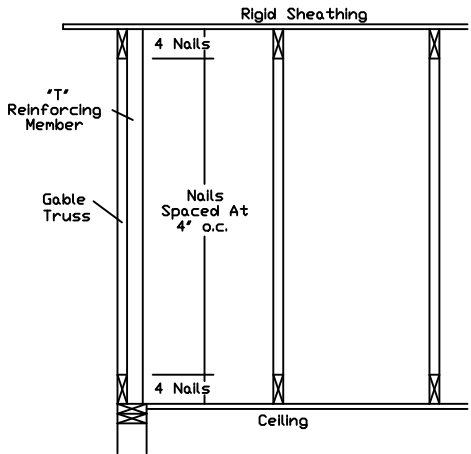
"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24' o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

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For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcacomponents.com; ICC: www.iccsafe.org



05/22/2022

MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF LET-IN VERT
DATE 01/02/2018
DRWG GBLLETIN0118

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

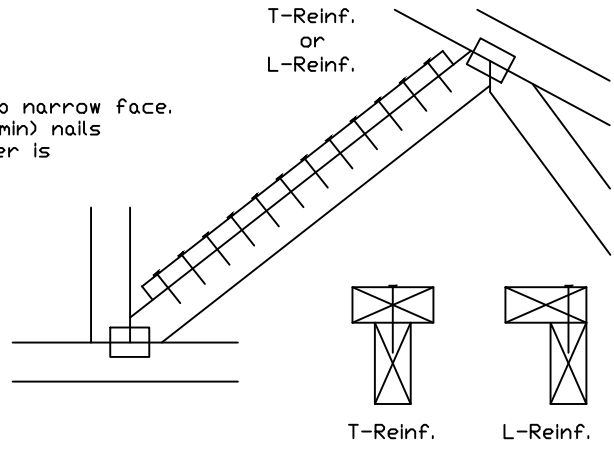
Web Member Size	Specified CLR Restraint	Alternative Reinforcement	
		T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(✕)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(✕)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(✕) Center scab on wide face of web. Apply (1) scab to each face of web.

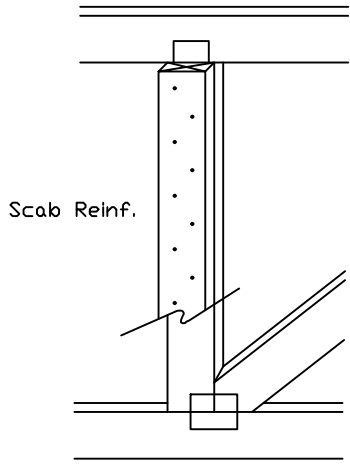
T-Reinforcement
or
L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.





AN ITW COMPANY

155 Harlem Ave
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Glenview, IL 60025

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02/2022

TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

Commentary: Deflection and Camber

Camber may be built into trusses to compensate for the vertical deflection that results from the application of loads. Providing camber has the following advantages:

- Helps to ensure level ceilings and floors after dead loads are applied.
- Facilitates drainage to avoid ponding on flat or low slope roofs.
- Compensates for different deflection characteristics between adjacent trusses.
- Improves appearance of garage door headers and other long spans that can appear to "sag."
- Avoids "dips" in roof ridgelines at the transition from the gable to adjacent clear span trusses.

In accordance with ANSI/TPI 1 the Building Designer, through the Construction Documents, shall provide the location, direction, and magnitude of all loads attributable to ponding that may occur due to the design of the roof drainage system. The Building Designer shall also specify any dead load, live load, and in-service creep deflection criteria for flat or low-slope roofs subject to ponding loads.

The amount of camber is dependent on the truss type, span, loading, application, etceteras.

More restrictive limits for allowable deflection and slenderness ratio (L/D) may be required to help control vibration.

The following tables are provided as guidelines for limiting deflection and estimating camber. Conditions or codes may exist that require exceeding these recommendations, or past experience may warrant using more stringent limitations.

L = Span of Truss (inches)
D = Depth of Truss at Deflection Point (inches)

Recommended Truss Deflection Limits

Truss Type	L/D	Deflection Limits	
		Live Load	Total Load
Pitched Roof Trusses	24	L/240 (vertical)	L/180 (vertical)
Floor of Room-In-Attic Trusses	24	L/360 (vertical)	L/240 (vertical)
Flat or Shallow Pitched Roof Trusses	24	L/360 (vertical)	L/240 (vertical)
Residential Floor Trusses	24	L/360 (vertical)	L/240 (vertical)
Commercial Floor Trusses	20	L/480 (vertical)	L/240 (vertical)
Scissors Trusses	24	0.75" (horizontal)	1.25" (horizontal)

Truss Type	Recommended Camber
Pitched Trusses	1.00 x Deflection from Actual Dead Load
Sloping Parallel Chord Trusses	1.5 x Vertical Deflection from Actual Dead Load
Floor Trusses	(0.25 x Deflection from Live Load) + Actual Dead Load
Flat Roof Trusses	(0.25 x Deflection from Live Load) + (1.5 x Design Dead Load Deflection)

Note: The actual dead load may be considerably less than the design dead load.

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155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025



REF	DEFLEC/CAMB
DATE	10/01/14
DRWG	DEFLCAMB1014



Structural Engineers – Since 1957

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

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

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

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Group 14 Truss	REVIEWED
BDC SHOP DRAWING STAMP COMMENTARY This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner. DEFINITIONS APPROVED Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed. FURNISH AS CORRECTED Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required. REJECTED, REVISE AND RESUBMIT Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review. RETURNED NOT REVIEWED The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons: • The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications. • The submitted materials were inadequate for review either in scope, quality, or sufficient detail. • The submitted materials do not require review by the structural engineer of record. • The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp. REVIEWED Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.	

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

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 14 Floor Layout

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	THA422	130	Simpson
=	THA422-2	6	Simpson

Total Plan Area with OHs = 6372 sq.ft

Total Truss Quantity = 270.

SHOP DRAWING REVIEW

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

☐ APPROVED

☐ FURNISH AS CORRECTED

☐ REJECTED, REVISE & RESUBMIT

☐ RETURNED NOT REVIEWED

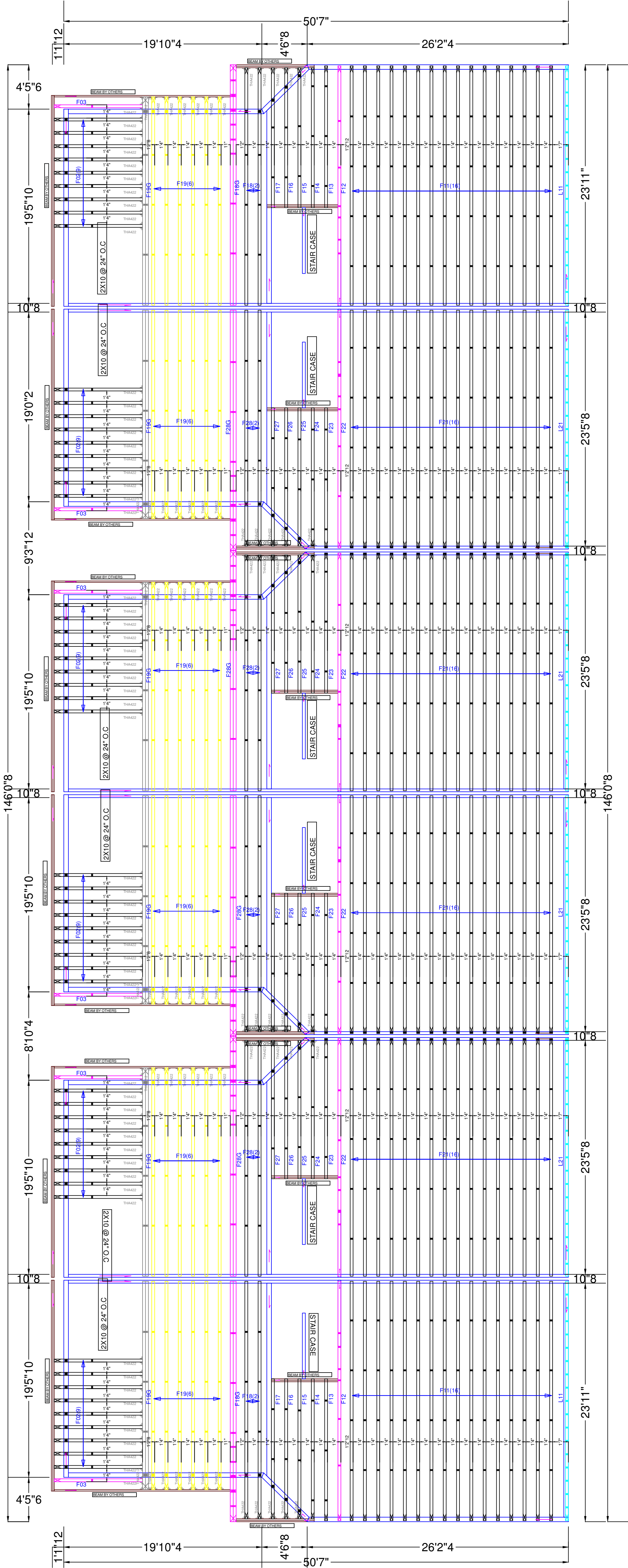
☒ REVIEWED

REFER TO DEVIATIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.

STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB



DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses

NOTE: Yellow ID Tag Location Indicates Left/Right Orientation of Trusses



3363 S. Halstead Rd.
Halstead, KS 67056
(316) 830-6108

Job Name:

McCambridge Brothers Construction

Designer: Juan R Quiroz

Reference #: JB-220699

Date: 3/16/2022

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Address:

2100 NW Lowenstein Dr
Lee's Summit
MO



Structural Engineers – Since 1957

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

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Group 14 Truss	REVIEWED
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BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Group 14 Roof Layout

HANGER CHART

Symbol	Name	Qty	Manufacturer
=	HUS26-2	4	
=	LUS24	118	Simpson

Total Plan Area with OHs = 5873 sq.ft

BEARING WALL & BEAM HEIGHTS

19'
19'1-3/4"
19'8"
19'9-3/4"

Total Truss Quantity = 498.

SHOP DRAWING REVIEW

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☐ APPROVED

☐ FURNISH AS CORRECTED

☐ REJECTED, REVISE & RESUBMIT

☐ RETURNED, NOT REVIEWED

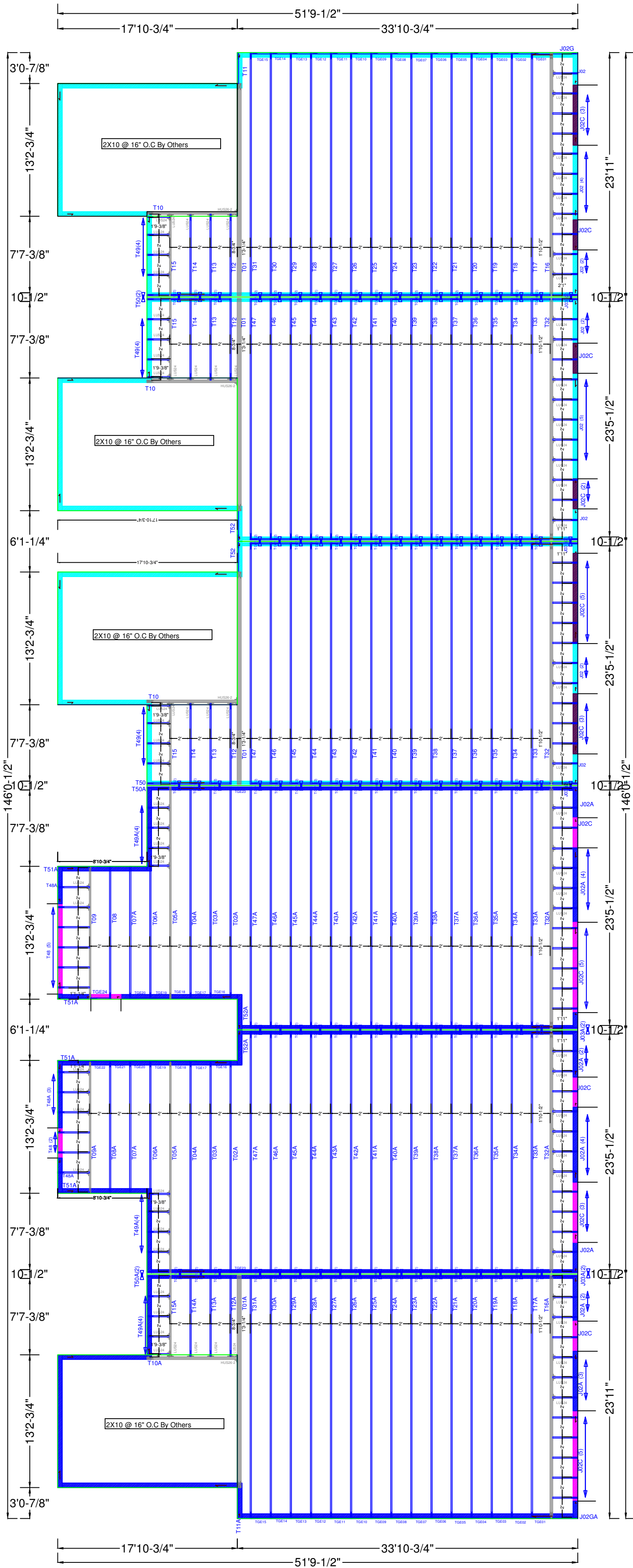
☒ REVIEWED

REFER TO REVISIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.

STRUCTURAL ENGINEERS

DATE: 05/30/2022 BY: CB



DO NOT Erect Backwards/Upside Down or Cut, Alter, Installed Trusses



3353 S. Highway Rd.
Halestead, MS 39756
(316) 830-6108

Job Name:

McCambridge Brothers Construction

Customer:

MCCAMBRIDGE BROTHERS CONSTRUCTION CO INC

Designer: Juan R Quiroz

Address: 2100 NW Lowenstein Dr
Lee's Summit
MO

Reference #: JB-220700

Date: 5/21/2022

NOTE: Yellow ID Tag Location Indicates Left/Front/Bottom of Truss